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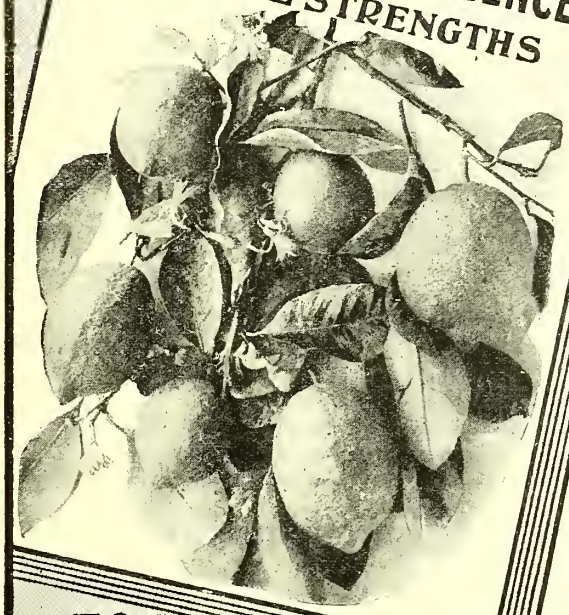

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Major.—PETER IRVINE, Oban. First attempt.

Minor.—MISS KENNEDY, Hawick; W. F. RUSSELL, Glasgow; JOHN F. DRYNAN, Girvan; JAS. RUSSELL, Paisley; T. E. GRAY, Brechin; JAS. THOMSON, Fochabers; SIMON S. NICOL, Carnoustie; C. C. TRENWITH, Bellshill.

April Minor.—DAVID ARNOTT, Crieff; ROBT. WALLACE, Castle Douglas; JAS. WALKER, Helensburgh; R. M. WILSON, Ayr.

Of the above 13 Students, 7 passed at the first attempt.

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Matthew Crowden Carruthers, Buckie
Gilbert Dyet, Stonehouse
James Leonard Evans, Coatbridge
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William Charles Hogg Garvie, Glasgow
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James Muir Hall, Lanark
George Hicks, Rothesay
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James Paton Young, Airdrie
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Mr. J. S. HILL, South Shields.
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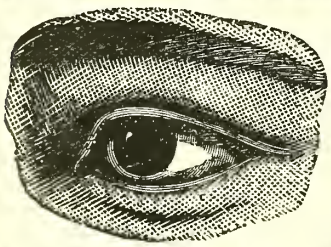

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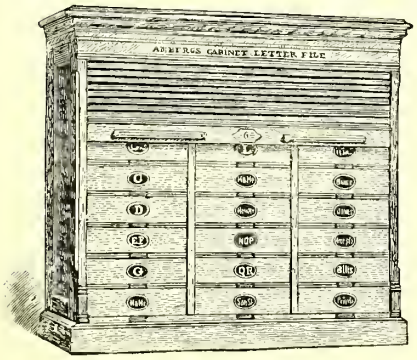

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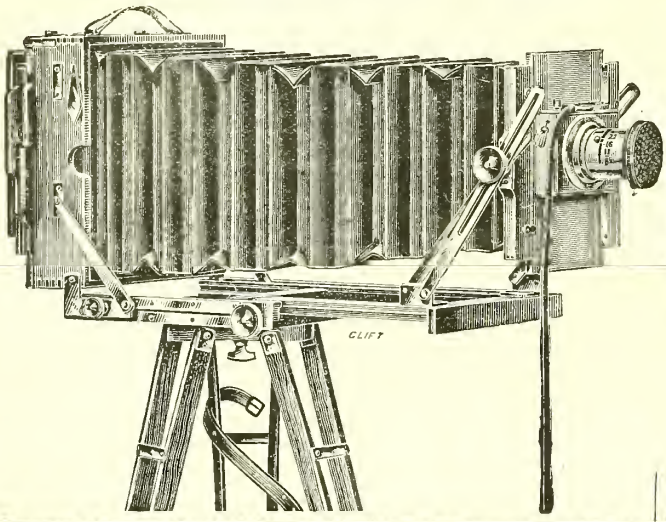

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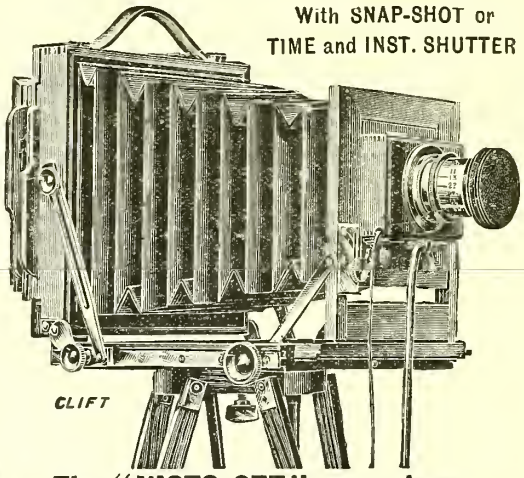

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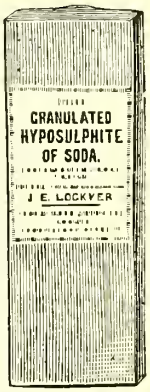

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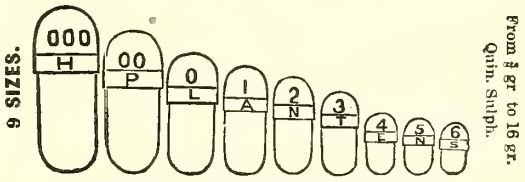

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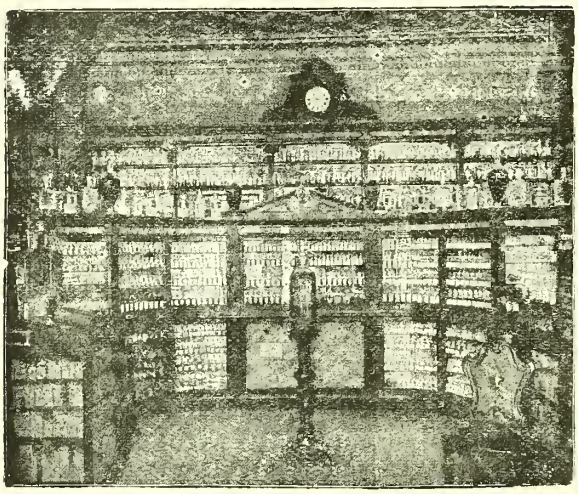

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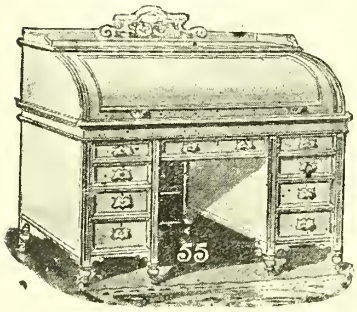

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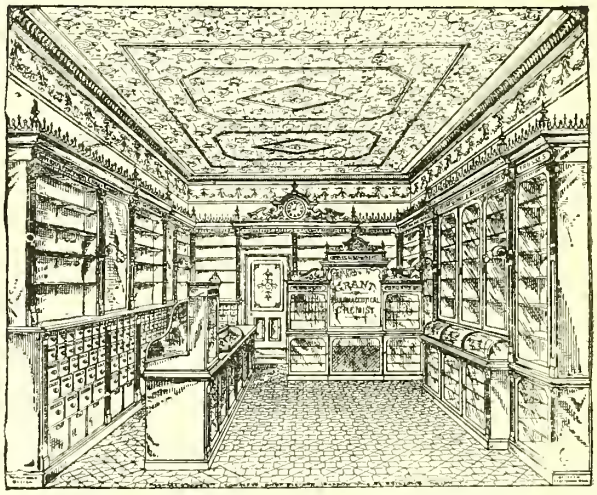

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Fletcher, Fletcher & Co.
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Parke, Davis & Co.
Potter & Clarke
Ransom, W., & Son
Wilkinson & Simpson, Lim.

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Ransom, W., & Son

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Gilbertson, H., & Sons, Lim.
Hovenden & Sons
Kilner Bros.
Lynch & Co., Lim.
Maw, S., Son & Thompson
May, Roberts & Co.
Shaw, S. C., & Co.
Youldon, E.

FILTERS
Berkfeld Filter Co., Lim.
Defries, J., & Sons

FLY CATCHERS
Alabastine Co. (British), Lim.,
Chameleon Patents Mfg. Co. Lim.
Ford, Shapland & Co.
Goddon, Lim.
Kay Bros.
Marshalls, Lim.
Mather, W. Lim.
Maw, S., Son & Thompson
Newbery, F., & Sons
Shirley Bros.
Smith, J. H., & Co.
Strong, Christy
Tunbridge & Wright
Western Pharmacies Co,

FOOD (Infants' & Invalids.)
Allen & Hanburys
Beanes, E., & Co.
Benger's Food
Bleasdale & Co., Lim.
Bovril, Lim.
Brand & Co.
British Somatose Co., Lim.
Burgoyne, Burbidges & Co.
Coombs' Flour Co., Lim.
Cosenza & Co.
"Ferocal," Squire's
Frame Food Co.
Goodall, Backhouse & Co.
Hearon, Squire & Francis
King, G., & Co.
Liebig Co.
Nelson, G., Dale & Co., Lim.
Nestle, H.
Parke, Davis & Co.
Plasmon Syndicate, Lim.
Ridge, Dr.
Savory & Moore
Squire's Chemical Food
Vi-Cocoa (Dr. Tibbles')
Virol (Bovril, Lim.)
Worth's Foods Syndicate, Lim.

GELATINS, GUMS, &c.
Fink, F., & Co.
Meggett, Saml., & Sons, Lim.

GLYCERIN
Price's Candle Co., Lim.

GRANULAR PREP.
Bishop, A., & Sons
Evans, Gadd & Co.
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
Tyrer, T., & Co., Lim.

HAIR PREP.
Chesebrough Co.
Edwards & Co.
Hopgood, W.
Marion, James & Co.
Rayne, H. & M.
Thiellay, E. H.

HERB BEER EXTS.
Newball & Mason
Potter & Clarke

HOMŒOPATHIC
Ashton & Parsons
Epps, J., & Co., Lim.
Keene & Ashwell (Perloids)
Leath & Ross
Munyon's H. H. R. Co.
Watson & Wates

HOTELS
Hotel Metropole

HYPOPHOSPHITES
Duncan, Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Tyrer, T., & Co., Lim.

ICE CREAM POWDERS
May, John

INHALERS
Hawksley, T. (AmCl)
Krohne & Sesemann
Kuhn, B.
Lynch & Co., Lim.
Munyon's H. H. R. Co.
Newsholme, G. T. W.

INSECTICIDES
Bleasdale, Lim.
Fleming's Oil & Chemical Co. Lim.
Jackson, T.
Keating, T.
Tunbridge & Wright
Windschuegl, C., & Co.

LAVENDER WATER
Newbery, F., & Sons (Berdoe's)
Sainsbury, S.

LEMON PEEL, &c.
Southwell, C., & Co.
Toomey, J.

LETTER FILES INDEX, &c
Amberg File & Index Co.

LIME JUICE, &c.
Idris & Co., Lim.
Riddle, Alexander, & Co., Lim.

LINT
Burgoyne, Burbidges & Co.
Christy, T. & Co.
Darton, Gibbs & Co.
Liverpool Lint Co.
Maw, S., Son & Thompson
Newsome, C.
Robinson & Sons
Wood, Vincent

LIQUORICE
Evans, Gray & Hood ("Solazzi")
Evans, Sons & Co. (Savarini)
Hillabys, Lim.
Jeancard, Gazan & Doumin
Wilkinson & Co.
Young & Smylie

LIQUORS
Baiss Bros. & Stevenson
Fletcher, Fletcher & Co.
Lloyd, T. Howard, & Co.
Oppenheimer, Son, & Co., Lim.

LOOFAHS
Solport Bros.

LOTIONS
Edgar's Croup Lotion

LOZENGES, &c.
Allen & Hanburys
Denoual, J., & Co.
Gibson, R., & Sons (Manfrs.)
Guest, T., & Co., Lim.
Jackson, T.
Raimes & Co.
Warrick Bros.

LUNG PRESERVERS
Zimmer & Co.

MACHINERY
Bennett, Sons & Shears, Lim.
Colton, Arthur
Gardner, W., & Sons
Melin, C.
Pindar, J. W.
Werner, Pfleiderer & Perkins, Lim.

MAGNESIA
American Magnesia Co.
Bishop, A., & Sons, Lim.
Bleasdale, W., & Co.
Henry, T. & W. (Calcined
Lloyd, T. Howard, & Co.
Washington Chemical Co.

MALT EXTRACT, &c.
Allen & Hanburys
Burroughs, Wellcome & Co. (Kepler's)
Hearon Squire & Francis
Johnson's Saccharum Co., Ld.
Malt Diastase Co.
Parke, Davis & Co.
Price's Patent Candle Co., Ld.
Raimes & Co.
Rannes, Clark & Co.

MARKING INKS
Bond, John (Crystal Palace)

MEASURES
Quaintance, A. W.
Taylor, F. H., & Co.

MEDICINE CHESTS
Burroughs, Wellcome & Co.
Day, Son & Hewitt (Veterinary)
Day & Sons (Veterinary)

MERCURIALS
Howards & Sons
May & Baker, Lim.
Tyrer, T., & Co., Lim.

METH. SPIRIT, &c.
Boord & Son
Burrough, J., Lim.
Jones & Co. | Phillips, G., & Co.

MICROSCOPES
Dartou, F., & Co. | Ross, Lim.

MILK
Nestle, H. (Condeosed)

MORPHIA
Macfarlan, J. F., & Co.
Smith T. & H., & Co.

OILS, VARNISHES, &c.
Calvert Bros. & Co.
Pinchin, Johnson & Co.
Stern Bros. (White)

OINTMENT BASES, &c.
Baiss Bros. & Stevenson
Burroughs, Wellcome & Co. (Lanoline)
Chesebrough Co. (Vaseline)
Lloyd, T. Howard, & Co.
Resinol Chemical Co.

OXIDE OF ZINC
Baiss Bros. & Stevenson
Hubbuck, T., & Son, Lim.

PALATINOIDS
Oppenheimer, Son & Co., Lim.

PATENT AGENTS
Barker, Reginald W.
Chapman, J. C., & Co.
Trade Mark Protection Society

PATENT MEDCNS, &c.
Anglo-American Drug Co., Ld.
Barclay & Sons, Lim.
Beecham, T. (Pills)
Clarke's Blood Mixture
"Daisy" Headache Powders
Edgar's Croup Lotion
Edwards & Son
Evans, Lescher & Webb
Evans, Sons & Co.
Fenning (Powders)
Goodall, Backhouse & Co.
Holloway (Pills and Oint.)
Hovenden & Sons
Lageman, C.
Lalor (Phosphodyne, &c.)
May, Roberts & Co.
Newbery, F., & Sons
Paris Medicine Co.
Porter, J., & Son
Post, A. M., Lim.
Powell, Thomas, Lim.
Richards, J. M.
White, A. J., Lim.

PEPPERMINT OILS
Bush, W. J., & Co
Ransom, W., & Son
Stevenson & Howell

PEPSIN, &c.
Armour & Co.
Baiss Bros. & Stevenson
Burroughs, Wellcome & Co.
Cerebos Limited (Pepsalia)
Fairchild Bros. & Foster
Parke, Davis & Co.

PERFUMERY, FANCY SOAPS
Allen & Hanburys, Lim.
Ayrton & Saunders
Barclay & Sons, Lim.
Bleasdale, Lim.
Blondeau & Cie
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Chesebrough Co.
Cook, E., & Co., Lim.
Corbyn, Stacey & Co.
Evans, Sons & Co.
Farina, J. M.
Goerz, C. P.
Greensill & Son
Grossmith, Sons & Co.
Hovenden & Sons
London Essence Co.
London Perfumery Co.
Marshall's, Lim.
Mason, C. E., & Co.
Mülhens, F.
Newbery, F., & Sons (St. Paul's)
Parkes, J., & Co.
Pears, A. & F., Lim.
Potter & Clarke (Sachets)
Quelch, H. C.
Raynaud, Claude, & Co.
Roberts & Sheppey
Sainsbury, S.
Sanger, J., & Sons
Schutze, F., & Co.
Van Oppen & Co.
Vigo, Jules & Co., Lim.
West, T. (Okell's Mona)

PEROX. OF HYDR.
May & Baker, Lim.
Robbins & Co.
Sanitas Co., Lim.
Tyrer, T., & Co., Lim.

PHOTOGRAPHIC X RAY, &c.
Barclay & Sons, Lim.
Burroughs, Wellcome & Co
Butcher, W., & Son
Cox, H. W., Lim.
Darton, F., & Co.
Evans, Sons & Co.
Harrington Bros.
Houghton, G., & Son
Lockyer, J. E.
Lowe, B., & Co.
Mackey, Mackey & Co.
Merck, E.
Newbery, F., & Sons
Raphael, J., & Co. | Ross Lim.
Saunders, Alfred W.
Seabrook Bros. & Co.
Shew & Co.
Townsend, J., & Son
Tyrer, T., & Co.
White, Alfred, & Sons
Woolley, J., Sons & Co., Lim.

PESSARIES
Rendell, J. W.

PTRLEUM JELLY, &c.
Allen & Hanburys
Christy, T., & Co.
Dee Oil Co., Lim.
Hatrick, James L., & Co.
Snowdon, Sons, & Co., Ld. (Jelly
Stern Bros.

PHARM. PREPS.
Allen & Hanburys
Armour & Co.
Baiss Bros. & Stevenson
Barron, Harveys & Co.
Boehringer, C. F., & Sohne
British Somatose Co., Lim.
Burgoyne, Burbidges & Co.
Burroughs, Wellcome & Co.
Davies, Gibbins & Co.
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Evans, Lescher & Webb
Evans, Sons & Co.
Fairchild Bros. & Foster
Fassett & Johnson
Ferris & Co.
Fletcher, Fletcher & Co.
Hearon, Squire & Francis
Hewlett & Son
Howards & Sons
Kirby, H. & T., & Co., Lim
Kuhlenthal, W.
Lageman, C.
Lambert Pharmacal Co.
Lofthouse & Saltmer
Macfarlan, J. F., & Co.
Mackey, Mackey & Co.
Martindale, W.
May & Baker, Lim.
Merck, E.
Merrell, Wm. S., Chemical Co.
Oppenheimer, Son & Co.
Parke, Davis & Co.
Potter & Clarke, Lim.
Smith, T. & H., & Co.
Squire & Sons
Stern Bros.
Tyrer, T., & Co., Lim.
White, Alfred, & Sons
Wilcox & Co.
Wilkinson & Simpson, Lim.
Willows, Francis, Butler & Thompson
Woolley, Sons & Co., Lim.
Wyley's, Lim.
Zimmer & Co.

PILL MACHINES
Bennett, Sons & Shears, Lim.
Pindar, J. W.

PILLS, Coated, &c.
Allen & Hanburys, Lim.
Beecham, Thomas
Bleasdale & Co., Lim
Cox, Arthur H., & Co
Davies, Gibbin & Co.
Davy, Hill & Son, Yates Hicks
Duncan, Flockhart & Co.
Evans, Gadd & Co.
Hearon, Squire & Francis
Holloway, Professor
Kearsley, C. & G.
Kirby, H. & T., & Co., Lim
Lloyd, T. Howard, & Co.
McKesson & Robbins
Parke, Davis & Co.
Scottish Sugar-coated Pill Co.
Wand, S. (Pearl Coated)
Warner, W. R., & Co. (Coated
Wyleys, Lim.

PLASTERS
Beiersdorf, P., & Co.
Chesebrough Mfg. Co.
De St. Dalmas, A.
Evans, Sons & Co.
Mather, W., Lim.
Seabury & Johnson
Solport Bros. (Court)

POLISHING
Bradley & Bourdas (Albatum
Fordham, W. B., & Sons, Lim.
Oakey, J., & Sons, Lim.
Raimes & Co. (Stockton)

PRINTING
Bowers Bros.
Bowles & Co.
Corsan, J. R. (Glass)
Ford, Shapland & Co.
Harrison & Waide
Silverlock, H
Townsend, J.

QUININE
Boehringer, C. F., & Sohne
Howards & Sons
Imperial Quinine Co.
Zimmer & Co.

RENNET
Duncan, Flockhart & Co.
Tomlinson & Hayward

RUBBER STAMPS
Bond, J. (Crystal Palace)
Richford, E. M.

SACCHARIN
Anglo-Continental Chemical Works, Lim.
Saccharin Corporation, Lim.

SALICIN
Macfarlan & Co.
Smith, T. & H., & Co.

SAUCES, PICKLES
Goodall, Backhouse & Co.

SEA SALT
Tidman n, Lim.

SCHOOLS, &c.
Edinburgh Central School
Glasgow School (J. Lothian)
Imperial College (Davis, F.)
Leeds College of Pharmacy
Liverpool School
London College
London College of Pharmacy for Ladies
Manchester Col. of Pharmacy
MetropolitanCol.of Pharmacy
North of England School
Northern Collegeof Pharmacy
Royal Dispensary(Edinburgh)
Sheffield College of Pharmacy
South London School of Pharmacy, Lim.
West of Scotland College
Westminster College

SEEDS
Potter & Clarke

SELTZOGENES
Geraut, E., & Co.
Thessier, E.

SHAVING
Hovenden & Sons (Euxesis)
Lloyd, A., & Co. (A. S. Lloyd's Euxesis)
Shavo shaving Cream Co.

SHEEP DIP
Cooper, Wm., & N phews
Fletcher Bros. & Co.
Sanitas Co., Lim.
Tomlinson & Hayward

SHOP FITTERS
Alstrom, C.
Ayrton & Saunders
Bowling & Govier
Bygrave, J. & W.
Ellison, F. E., & Co., Lim.
Evans, Sons & Co.
Howlett, S., & Son
Josephs, Philip & Son
Maw, S., Son & Thompso
Parnall & Sons, Lim.
Treble, G., & Son

SOAP
Allen & Hanburys, Lim.
Ayrton & Saunders
Bronnley, H., & Co.
Calvert, F. C., & Co.
Cook, E., & Co.
Gibbs, D. & W. (Medicated)
Mülhens, F.
Pears, A. & F., Lim.
Resinol Chemical Co.
Sanitas Co., Lim.
Vinolia Co., Lim.

SIZE
Meggett, S., & Sons, Lim.

SKINS
Bourgeois, E.

SPECTACLES &c.
Botwright & Grey
Darton, F., & Co.
Raphael, J., & Co.

SPONGES
Cohen, I. & M.
Cresswell Bros. & Schmitz
Phillips, J., & Sons

STERILIZERS
Hawksley, T. (Milk)

STOPPERS
Austin & Co. (Sprinklers)
Barnett & Foster
Melin, C.
Mineralized Rubber Co.
Stipendum Stopper Co., Lim.

STOVES
Clark, S., & Co., Lim.

SUGAR
Macfie & Sons

SURGICAL
Bailey, W. H., & Son
Barclay & Sons, Lim.
Beiersdorf, P., & Co.
Burgoyne, Burbidges & Co.
Darton, Gibbs & Co.
Davol Rubber Co.
Domen Belts Co.
Eschmann Bros. & Walsh
Fassett & Johnson
Ferris & Co.
Findlay, John J., & Co.
Galen Manufact'g Co., Lim.
Gilbertson, H., & Sons, Lim.
Haywood, J. H.
Krohne & Sesemann
Liverpool Pa ent Lint Co.
Lynch & Co., Lim.
Macfarlan, J. F., & Co.
Marvel Whirling Spray Co.
Maw, S., Son & Thompson
Oppenheimer, Son & Co., Lim.
Powell & Barstow
Quelch, H. C.
Robinson & Sons
Sanitary Wood Wool Co., Lim.
Schutze, F., & Co.
Spongio Piline
Wood, Vincent

SYRUPS
Beckett, W., Sons & Co.
Fletcher, Fletcher & Co. (Liquors)
Stevenson & Howell

SYPHONS
Barnett & Foster
Camwal, Lim.
Geraut, E., & Co.
Idris & Co., Lim.
Kilner Bros. | Melin, C.

TABLETS
Corsan, J. R. (Advertising)
Lamlert, A., & Co.
Roberts & Sheppy

TEA
Thomas, O., & Co.
Tower Tea, Lim.

TEETHING PADS
Barclay & Sons, Lim.
Cartwright, A. S.

THERMOMETERS
Bailey, W. H., & Son
Comitti, O., & Son, Wells & Lyon, Lim.
Darton, F., & Co.
Pastorelli & Rapkin

TINCTURES
Evans, Sons & Co.
Hewlett, C. J., & Son
Lloyd, T. Howard, & Co.
Parke, Davis & Co.
Southall Bros. & Barclay, Lim.
Wyleys, Lim.

TOBACCO & CIGARS
Barclay & Sons, Lim.
Oakes Bros. & Co.
Singleton & Cole, Lim.

TOILET
Allen & Hanburys, Lim.
Ayrton & Saunders
Barker, F., & Son
Burroughs, Wellcome & Co. (Lanoline)
Crown Crystalline Co.
Dce Oil Co., Lim.
Hovenden & Sons
Lynch & Co., Lim.
Major & Co., Lim.
Marshall's, Lim.
Maw, S., Son & Thompson
Moseley, D., & Sons
Newbery, F., & Sons
Quelch, H. C.
Sanitas Co., Lim.
Solport Bros.
Southall Bros. & Barclay
Squire & Sons
Tidman & Son, Lim.
Townsend, J. (Paper)
Vinolia Co., Lim.

TINS
Shirley Bros.
Tinplate Decoration Co., Lim.

TOOTH PASTE
Beecham, T.
Beiersdorf, P., & Co.
Jewsbury & Brown
Maw, S., Son & Thompson
Parke, Davis & Co.
Sutton, O., & Co.
Woods, M. (Areca)

TRADE MARK AGNTS
Barker, Reginald W.
Chapman, J. C., & Co.
Trade Mark Protection Society

VACCINATION
Maw, S., Son & Thompson
Vaccine Association (Lymph)

VALUERS AND TRANSFER AGENTS
Ayrton & Saunders
Berdoe & Co.
Brett, F. J.
Judd & Manners
Orridge & Co.
Shacklady, J.
Tomlinson, Thos., & Son

VANILLA
Pavia, F.

VASELINE
Chesebrough Co.

VETERINARY
Corry & Co. Lim.
Day & Sons
Day, Son & Hewitt
Elliman, Sons & Co.
Harvey & Co.
Lloyd, T. Howard, & Co.
Pettifer, Stephen & Sons
Sanitas Co., Lim.
Spratt's (Dogs)
Walker, Troke & Co.

VINOLIA Superfatted
Vinolia Co., Lim.

VINEGAR
Grimble & Co.
Gulliver, S., & Co., Lim.

WEED KILLER
Acme Chemical Co., Lim.
Fletcher Bros. & Co.
Sanitas Co., Lim.
Tomlinson & Hayward

WHOLESALE & EXPT DRUGGISTS
Allen & Hanburys
Allen, S., & Son
Baiss Bros. & Stevenson
Barron, Harveys & Co.
Bleasdale & Co., Lim.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Corbyn, Stacey & Co.
Davies, Gibbins & Co.
Davy, Hill & Son, Yates & Hicks
Evans, Gadd & Co.
Evans, Sons & Co.
Evans, Lescher & Webb
Ferris & Co.
Goodall, backhouse & Co.
Harker, Stagg & Morgan
Hearon, Squire & Francis
Hewlett & Son
Kemp, Wm., & Son
Lloyd, T. Howard, & Co.
Lofthouse & Saltmer
London Essence Co.
Macfarlan, J. F.
Potter & Clarke
Raimes & Co.
Raimes, Clark & Co.
Smith, B. A., & Co.
Taylor & Colledge
Willows, Francis, Butler Thompson
Woolley, Jas, Sons & Co.
Wyleys, Lim.

WINES, SPIRITS, BEER, &c.
Baiss Bros. & Stevenson
Bowen & McKechnie
Burrough, J.
Coleman & Co., Lim.
Fletcher, Fletcher & Co.
French Hygienic Society
Goodall, Backhouse & Co.
Holloway's Win- Co., Lim.
Millar, A., & Co. (Orange)
Phillips, G., & Co.
Robinson, B. (Orange)
Smith, S., & Co., Lim. (Orange)
Wilcox & Co., Lim.
Wright, F., Mundy & Co.
Wyleys, Lim.

New Trade Mark

For thirty-five years Liebig Company's Extract has been the world's standard. Every jar is signed J. v. LIEBIG, in blue, but as this does not appear to be sufficiently distinctive to avoid occasional confusion with other brands, the Liebig Company have placed upon their jars an additional label bearing the Company's initials—

LIEBIG'S EXTRACT OF MEAT LEMCO

by which name their customers will be able more easily to order and to identify the original

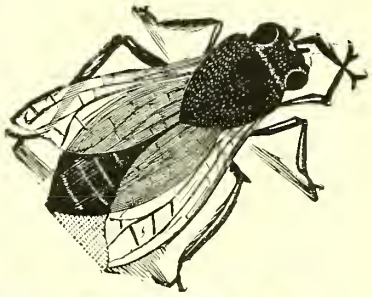
LIEBIG COMPANY'S EXTRACT

Sole Agents:—CORNEILLE DAVID & CO., 4 Fenchurch Avenue, London, E.C.

MARSHALL'S

27 RED LION SQUARE, LONDON.

REEL



CATCHER

THE BEST IN THE MARKET.

HALF PROFIT | **6/-** per gross, CARRIAGE PAID.

CAUTION.—Infringements of our Fly Catcher Patent are being unscrupulously pushed on the market. We give notice that not only makers of these goods, but vendors also, will be proceeded against.

MARSHALL'S TUBE FLY CATCHER.

1d., 2d., and 6d.

4/6 per gross.

CUCUMBER & GLYCERINE.

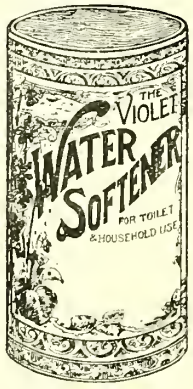
Inseparable, Packed in Elegant Style, with Superior Labels, Ribbon, &c.

	Per doz
2-oz. Mexican Opals	3/6
4-oz. ditto, ditto ..	6/-
2 oz Clear Glass Panelled Flats ..	2/6
3-oz. ditto, ditto ..	3/6
4-oz ditto, ditto ..	4/6

Customer's own Name Printed FREE on 3 doz. and above.

PROFITABLE HOUSEHOLD LINE.

½-lb. barrels, **36/-** gross. Violet, Rose, or Lavender.



Violet, Rose, or Lavender. ½-lb. barrels, **36/-** gross.

Name on Half-gross Orders.

Half-pound Bags. **8/-** per gross.

In 1-doz. Cases.

THE GREAT AND MARVELLOUS

INSECT DESTROYER.

Entirely different from any other Beetle or Flea Powder.

"VIKO" will kill Cockroaches.
"VIKO" will kill Moths.
"VIKO" will kill Fleas.
"VIKO" will kill Bugs.
"VIKO" will kill Mosquitoes.
"VIKO" will kill Ants.
"VIKO" will kill all Insects.
"VIKO" will *not* kill Dogs
"VIKO" will *not* kill Cats.

"VIKO" as a preventive against Moth is unrivalled. It has no equal. If sprinkled amongst Furs and Clothes instantly destroys any existing Insect Life, and ensures perfect freedom from a return of the pest.

Its effect upon Insect Life is simply marvellous.

REGISTERED.

Sold in 3d., 6d., & 1s. Tins.

SOLE PROPRIETORS—

TUNBRIDGE & WRIGHT, READING.

Manufacturers of the "World-Famed FLY CEMETERY."

TO PREVENT DISAPPOINTMENT, ORDER EARLY.

The World Famous Sticky Fly Paper.

'THE FLY CEMETERY'

FREE FROM POISON.

The Original and by far the Best Sticky Fly Paper in the Market.

Annual Sale—MILLIONS.

EWARE OF THE MANY SPURIOUS IMITATIONS IN THE MARKET.

STOCK A FLY PAPER THAT WILL GIVE SATISFACTION TO YOUR CUSTOMERS.

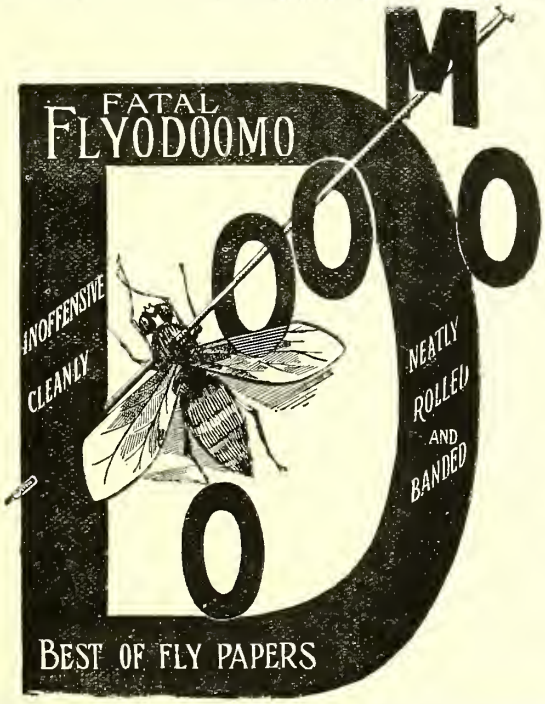
Terms, &c., from

TUNBRIDGE & WRIGHT, READING.

North of England Depot—4 Gallowgate, Newcastle-on-Tyne.
French Agency—84 Rue St. Martin, Cognac.

IMPORTANT NOTICE.—If any of our customers have any over year's stock of our Fly Cemeteries on hand, we shall be pleased to exchange same for fresh goods free of cost.

TELEGRAMS—"FLIES READING."



STOCKED BY ALL WHOLESALE HOUSES.

WRITE FOR QUOTATIONS.

Sample Gross, Post Paid, on receipt of P.O. for 5s.

JOHN H. SMITH & CO., Newark-on-Trent.

What the Trade thinks about

"COBWEBS."

Unsolicited Testimonial.

Mr. J. P. FAST, Chemist, Walsall, wrote:

"Sept. 26th, 1898.

"Please send one gross 'Cobwebs' per return. P.O. 5/- enclosed. This makes my 20th gross this season. Before selling 'Cobwebs' my annual sale of sticky Fly Papers used to be about two gross."

"COBWEBS," 5/- per gross, carriage paid.

CASH MUST ACCOMPANY ORDER.
SAMPLES FREE.

Millions sold annually.

CHRISTY STRONG, READING.

CAFOLIN

Pure Liquid Coffee

Produces instantaneously the Best Coffee in the World. Preserves its Fine Flavour and its wonderful Stimulating Powers. Also Cold or Iced, and for Puddings, Ices, &c., most Delicious.

IN CAFOLIN BOTTLES. FOR 20 COFFEE CUPS, 1/6; FOR 14 COFFEE CUPS, 1/2.

Wholesale—PEEK BROS. & WINCH, LIM., LONDON.

All Letters to CAFOLIN CO., Ld., 20 EASTCHEAP, E.C.

A PACKET THAT SELLS.

TOWER TEA.

String-tied Paper Packet. From **1/4** per lb.

Airtight Paper Bag. From **1/2** per lb.

Superior Lead Packet. From **1/8** per lb.

GOOD PROFIT TO THE RETAILER. SEND FOR SAMPLES AND NEW PRICE LIST.

TOWER TEA, LIMITED, 71 EASTCHEAP, LONDON, E.C.

DR TIBBLES' Vi-Cocoa

"Undoubted Purity and Strength."—*Medical Magazine.*

"In the front rank of really Valuable Foods."—*Lancet.*

PERFECTLY PURE BUT NOT INSIPID

FAVOURED BY THE HOMES AND HOSPITALS OF GREAT BRITAIN.

PLASMON

Registered Trade Mark. Patented in the U.K. and Abroad.

PLASMON is an absolutely pure, soluble milk albumen, free from all chemicals, and being tasteless and odourless is capable of being used in any and every form of food.

PLASMON replaces all other nitrogenous substances in the dietary of the healthy and of the weak, and of the aged and the young.

PLASMON is used in many of the principal Hospitals, and is prescribed by medical men throughout the country.

Descriptive literature will be forwarded on application.

PRICES :

Packets, each about 1 lb., 2/6.
" " ½ lb., 1/4.
" " ¼ lb., 9d.

Plasmon Biscuits, Plain or Sweet.
tins about 1 lb., 1/6.
" " 2 lbs., 3/-.

Plasmon Chocolate, at 3/- per lb.

THE PLASMON SYNDICATE LIM.
56 Duke Street,
Grosvenor Square,
LONDON, W.

Retail Trade Discount 15 per cent. On orders of £1 and upwards, carriage paid.

RIDGE'S PATENT COOKED FOOD

SATISFYING.
STRENGTHENING.
SOOTHING FOR INFANTS.
AGREEABLE.
DIGESTIBLE.
NOURISHING.

DR. RIDGE'S PATENT COOKED FOOD Is certified to contain all the essentials of a Pure Dietary necessary to secure a healthy and natural development of bone and muscle, a vital necessity to growing infants and a comfort to all.

DR. RIDGE'S FOOD is the Oldest, Best, Most Widely-known, and has the LARGEST SALE in the World.

SOLD EVERYWHERE.

The public are cautioned against all imitations.

"Makes them strong to push along."

RIDGE'S FOOD MILLS, LONDON, N.

Evans' Saline.

The peculiarity of this Saline is that the Chlorate of Potash, in the proportion of about 2 per cent., is in a state of minute subdivision, with, at the same time, a slight excess of Tartaric Acid. The latter gives a pleasant sharpness to the effervescing draught, whilst the former seems to have almost a "specific" effect in bilious headache.

In Bottles, with Chemist's Name printed free. New Artistic Labels now ready for 1900.
Prices and Sample Labels on application.

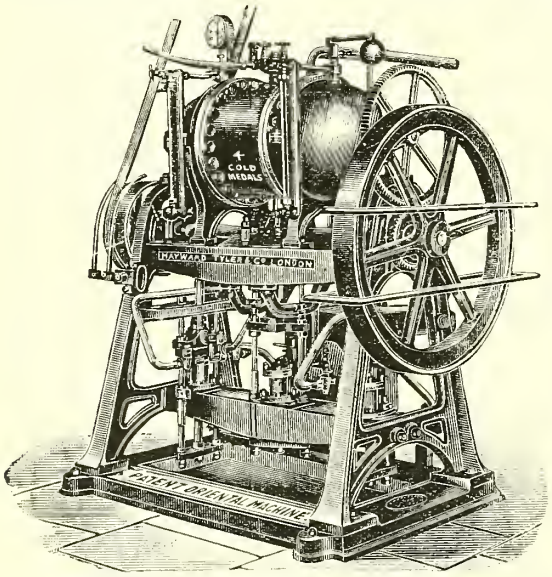
Evans, Lescher & Webb, LONDON. **Evans, Sons & Co.** LIVERPOOL.

EVANS AND SONS (LIM.) MONTREAL.

THE "ORIENTAL"

AËRATED WATER MACHINE.

Output 2,500 doz. per day.



HAYWARD-TYLER & CO.
Whitecross Street, LONDON, E.C. [1]

"ST. ERILE" LEMON CRYSTALS.

The finest flavour on the Market.

The contents of one bottle make 36 glasses of Lemonade.
Attractive Cartons. Each 3 dozen in handsome Outer.
30/- Gross, net cash.
Carriage Paid on 3 gross lots.

"ST. ERILE" LEMONADE POWDER

No Sugar Required.

Large Boxes Retailed at 1d.

1 dozen on Fine Art Card, **11** dozen loose, for **7/-**;
5 gross, **32/-**
Carriage Paid on 5-gross lots.

Send 4 Stamps for Sample of both to

WESTERN PHARMACIES, YEOVIL.

An assured Profit of over 30 per cent.

may be realised by chemists on the sale of

INVALID BOVRIL,

A special form of Bovril without seasoning, and more highly concentrated than the ordinary variety.

ONE OF THE PIONEER PREPARATIONS ON THE P.A.T.A. LIST.

The above-named percentage is the average profit on the three sizes : 2, 4 and 8 oz. jars.

As INVALID BOVRIL is now warmly recommended by most medical men, and the public demand in consequence steadily increasing, chemists who keep well stocked should find Invalid Bovril a highly appreciable source of profit.

BOVRIL LIMITED, Food Specialists and Hospital Purveyors, **LONDON.**

van Houten's Cocoa

Report by OTTO HEHNER, Esq., F.I.C., F.C.S.—"Pure and genuine.—Method of manufacture in every way superior.—Great strength and digestibility."

SACCHARIN.

THE SACCHARIN CORPORATION
v.
THE ANGLO-CONTINENTAL CHEMICAL WORKS, LIMITED, AND REITMEYER.

The following is an extract of the Judgment of Mr. Justice Buckley, originally delivered on 6th April, 1900, and subsequently confirmed by the Judge on 8th May, 1900, relating to the Injunction granted against the Defendants:

"This Court doth Order and adjudge that the Defendants, the Anglo-Continental Chemical Works, Limited, and Robert Reitmeyer, their servants and agents, be restrained, during the continuance of the Letters Patent granted to Harold Imray, dated 29th December, 1894, and No. 25273 in the Statement of Claim mentioned from importing into England and from manufacturing, selling, supplying and using in England Saccharin of the strength 1.555, 1.350 and 1.300 and Saccharin of strength 555 ***under the name of "SACCHARIN" "TIGRESS BRAND"*** manufactured according to or in the manner described in the Specifications filed in pursuance of the Applications for the said Letters Patent or according to or in manner only colourably differing from the same and generally from infringing the rights of the Plaintiffs in respect of the said Letters Patent."

THE SACCHARIN CORPORATION, LTD.,
165 QUEEN VICTORIA STREET,
LONDON, E.C.

Important Notice.

CAMWAL LIMITED

In view of some erroneous reports and impressions which the Reconstruction of CAMWAL appears to have produced, the Directors think it advisable to make the following statement :—

A.—CAMWAL, LIMITED, has no intention of interfering in any way with the trade which Chemists have obtained and may obtain. No Wine Merchant or Grocer can be supplied with "CAMWAL" WATERS, and no Hotel Proprietor or Publican who sends out Waters to the Public will be supplied with this well-known Brand of Waters.

B.—The fact of an individual being a shareholder does NOT entitle such individual to a supply of "CAMWAL" WATERS.

C.—CAMWAL, LIMITED, will do all in its power to protect and increase the trade of Chemists in this, their own Brand of TABLE WATERS.

SALUTARIS

CARRIAGE PAID BOTH WAYS.

NO CUTTING OF PRICES PERMITTED.

Retail prices on application.

NET TRADE PRICES for Cash with Order.

* Cases and Bottles (returnable) charged extra as below.

Scale		Per doz. Quarts	Per doz. Pints	Per doz. Nips	Per doz. Syphons	Per gall. in Case of 2 Jars	Per gall. in Case of 4 Jars	In Minimum Quantities of
	London and Suburbs, within radius of Carter, Paterson & Co., who deliver Full Goods and collect Empties free of charge.	2/4	1/5	1/3	4/-	7d.	6d.	1 doz. Qts., 2 doz. Pts., 4 doz. Nips, 1 doz. Syphons, 1 Case of 2 1-gall. Jars, 1 Case of 4 1-gall. Jars.
	Places distant from London.	DISTRIBUTING AGENTS WANTED						
A	Not exceeding 30 miles	2/10	1/11	1/6	4/6	8d.	8d.	3 doz. Qts., 6 doz. Pts., 12 doz. Nips, 3 doz. Syphons, 4 Cases of 2 1-gall. Jars, or 2 Cases of 4 1-gall. Jars.
B	Over 30 miles " 80 "	3/1	2/2	1/7	4/6	9d.	9d.	
C	" 80 " " 130 "	3/4	2/2	1/9	4/6	10d.	10d.	6 doz. Qts., 12 doz. Pts., 16 doz. Nips, 3 doz. Syphons, 4 Cases of 2 1-gall. Jars, 2 Cases of 4 1-gall. Jars.
D	" 130 " " 180 "	3/7	2/2	1/9	4/6	11d.	11d.	
E	" 180 " " 250 "	3/10	2/5	1/9	4/6	1/1	1/1	
F	" 250 "	4/1	2/8	1/9	4/6	1/3	1/3	

Single dozens 6d. extra.

* Deposit on Cases and Bottles (returnable) charged as follows :—1 doz. Quarts, 3/-; 2 doz. Pints, 4/-; 4 doz. Nips, 7/-; 1 doz. Syphons, 26/-; 3 doz. Quarts, 9/-; 4 doz. Pints, 8/-; 6 doz. Pints, 12/-; Case of 2 1-gall. Jars, 4/6; Case of 4 1-gall. Jars, 9/-. These amounts are refunded when the Emptics are returned in good order.

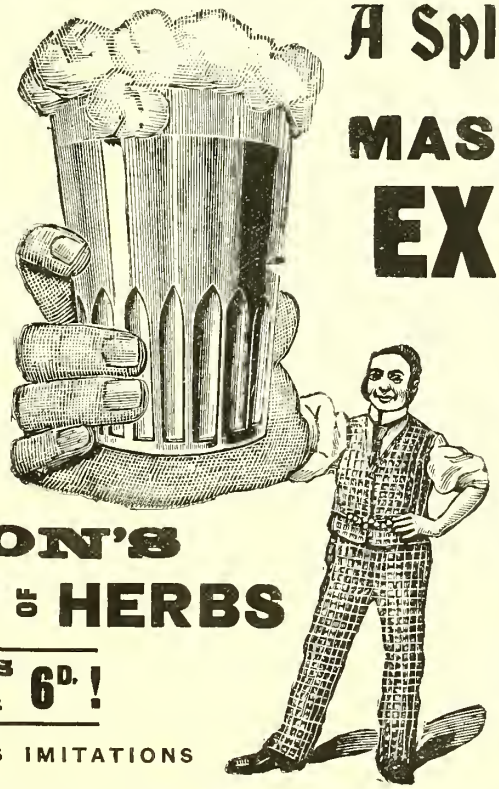
Certain places served by sea are **excepted** from the above rates, such as **Aberdeen, Belfast, Brechin, Cork, Dublin, Dundee, Edinburgh, Forfar, Glasgow, Kildare, Limerick, Londonderry, Montrose, Newbridge, Newcastle-on-Tyne, Perth, St. Andrews, Tipperary, &c.,** which are supplied at Scale E; **Isle of Wight, Jersey, and Guernsey** at Scale B; **Alderney and Sark** at Scale C.

SALUTARIS WATER CO.

The Distillery, 236 Fulham Road, London, S.W.

Telephone No. 629 Kensington. **Telegraphic Address: "SALUTARIS LONDON."**

The Biggest, Best, and Cheapest Drink!



A Splendid Drink!

MASON'S EXTRACT OF HERBS

FOR MAKING

NON-INTOXICATING

BEER.

DELICIOUS INVIGORATING BEVERAGE.

Always Refreshing.
Always Acceptable.

MASON'S EXTRACT OF HERBS

8 GALLONS of non-intoxicating BEER FOR 6D.!

BEWARE OF USELESS IMITATIONS

AGENTS WANTED. **NEWBALL & MASON, NOTTINGHAM.**

Carlsbad (NATURAL) Salt

For the treatment of CHRONIC GASTRIC CATARRH HYPERÆMIA of the LIVER, GALLSTONES, DIABETES, RENAL CALCULI, GOUT, and DISEASES of the SPLEEN.

SPRUDEL-SALT

(POWDER or CRYSTALS).

The *Powder* has the great advantage in not being affected by change of temperature or exposure to the atmosphere, and therefore in this form is the most reliable.

"SPRUDEL," "MUHLBRUNNEN," OR "SCHLOSSBRUNNEN"

(Water) in Cases of 50 bottles.

To avoid imitations, please see that THE WRAPPER round each bottle bears our signature

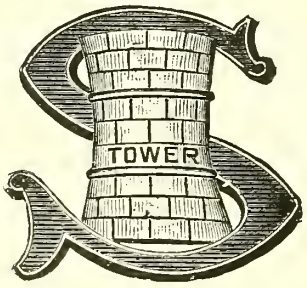
A Sample of the Salt in Powder Free to Members of the Medical Profession.

Sole Importers—INGRAM & ROYLE, LTD.

East Paul's Wharf, 26 Upper Thames Street, E.C.; and at Liverpool and Bristol.

STOWER'S LIME JUICE

See that each Bottle bears the REGISTERED TRADE MARK, and also the Signature (in Red) of the SOLE MANUFACTURERS.



Alex Riddle & Co

SOME REASONS FOR STOCKING.

It is the ORIGINAL.
It is absolutely PURE.
It is attractively PUT UP.
It is largely ADVERTISED.
It is in great DEMAND.
It is supplied to HER MAJESTY.
It has been specially selected for the Hospital Ships "PRINCESS OF WALES" and "MAINE," and the Imperial Yeomanry Base Hospital.
It is exclusively recommended by the MEDICAL PROFESSION.
It is supplied to all the principal HOSPITALS.
It takes up no time to Sell.
It leaves a Fair Profit.

FREE TASTING SAMPLES AND COUNTER BOTTLES,
Handsome Show Cards, Attractive Bills, and other Advertising material liberally and freely supplied to the Trade.

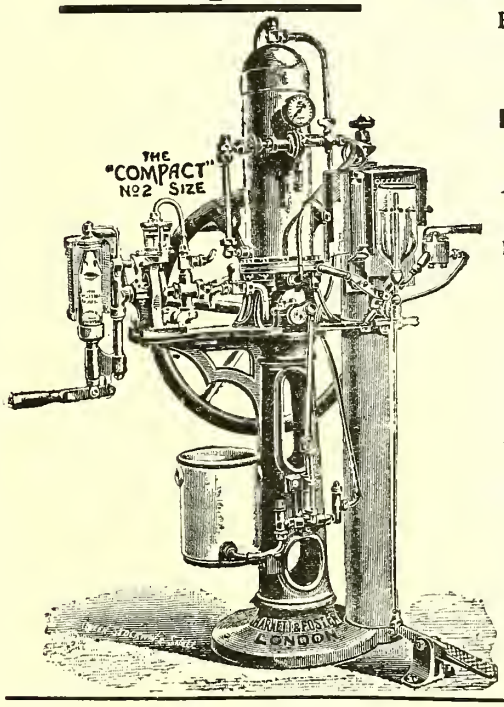
Sole Manufacturers and Proprietors,

ALEXANDER RIDDLE & CO., LTD., 36 & 38 COMMERCIAL ST., LONDON, E.

TO CHEMISTS. NOW IS THE TIME

TO CONSIDER THE ADVANTAGE OF PURCHASING A

"Compact" Soda-Water Machine



FOR USE WITH COMPRESSED CARBONIC GAS.

These Machines were specially designed for use where space is an object.

READY FOR IMMEDIATE WORK. NO FIXING REQUIRED. NO DANGER. PERFECTLY RELIABLE.

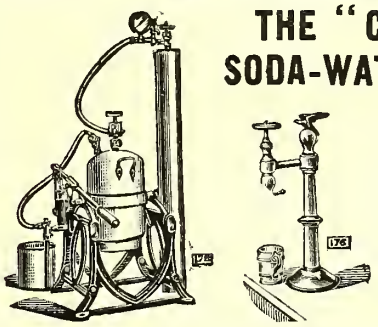
Although inferior imitations have been offered, these Machines still beat all Competitors.

NOTE.—We guarantee to produce a better article with these than any other system adapted for using the Liquefied Gas, and at a lower pressure, thus effecting an immense saving in broken bottles, and also reducing risk of accidents.

No. 1 Size.—Fitted with Syphon Filling Machine		£57 0
No. 1 „ „	Filling Machine for Ball-Stoppered Bottles only	59 2
No. 1 „ „	both above Filling Machines ... Fast and Loose Pulleys included.	62 2
No. 2 „ „	Syphon Filling Machine	45 0
No. 2 „ „	Filling Machine for Ball-Stoppered Bottles, with Syrup Pump ...	47 2
No. 2 „ „	both above Filling Machines ... Fast and Loose Pulleys extra.	50 2
No. 3 „ „	Syphon Filling Machine	33 0
No. 3 „ „	Filling Machine, with Syrup Pump, for Ball-Stoppered Bottles ...	35 2

NOTE.—Syrup Pump can be fitted to Syphon Filler if required.

THE "CYLINDER" SODA-WATER PLANT.

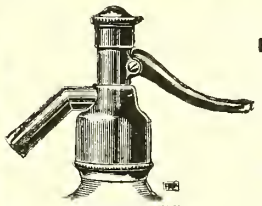


This is a cheap apparatus for use with Compressed Carbonic Acid Gas for serving Soda Water on the counter by means of the draught arm.

From £15.

THE "LONDON-MADE" SYPHON

Pattern "A."



Pattern "C." LONG LEVER.

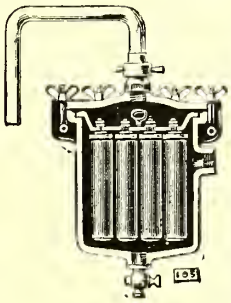
BEST BOHEMIAN CRYSTAL VASES.

Pure Tin Tops.

No admixture of Lead in any part of Syphon.

Carriage Paid Quotations upon receipt of specification.

"NIAGARA" MICROBE-PROOF FILTERS.



Complete Catalogue of these Filters Post Free.

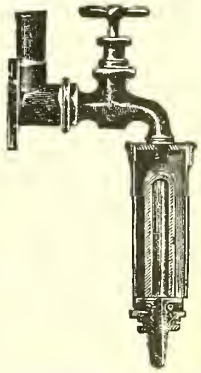
The most Reliable, Strongest, and Quickest Filter on the Market.

Output per hour.		
No. 1 — 20 gallons ...	£1 17	6
No. 3 — 60 „ ...	3 12	6
No. 5.—100 „ ...	5 10	0
No. 9 —180 „ ...	7 10	0
No. 15.—300 „ ...	12 10	0

TAP FILTER.

Complete with Screw-down Cock and Glass Case for Filter Tube,

16s.



ALSO SUPPLIED FOR TABLE AND HOUSEHOLD USE.

Illustrated Descriptive Catalogue of every requirement for the Mineral Water Trade on application.

BARNETT & FOSTER, NIAGARA WORKS, 26T EAGLE WHARF ROAD, LONDON, N.

BAILEY'S

No. 1 Cotton, with tape under-straps	@ per doz.	**8/9**
No. 2 Cotton, with drawing-strings	" "	**11/-**
No. 4 Silk, with drawing-strings	" "	**20/-**
No. 6 Silk, Superior Quality, with drawing-strings	" "	**26/6**
No. 8 Silk, with bags to button on	" "	**26/6**

SAMPLE CABINET (most Saleable Assortment) containing 6 each Nos. 1, 2, 4; 3 each Nos. 6, 8,

Price 33/-. Usual discount.

W. H. BAILEY & SON, 38 Oxford Street, LONDON.

Telegraphic Address—"BAYLEAF LONDON." Telephone 2942 GERRARD.

JAMES BURROUGH (LIMITED), [1]

S.V.R. 58 o.p. = 90 p.c. 60 o.p.

CALE ST., CHELSEA, S.W.

and Methylated Spirit

AT LOWEST PRICES.

Write for Quotations.

BOORD & SON,

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS.

ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for S.V.R. Methylated Spirit and Finish on application.

FINEST ORANGE WINE FOR QUININE.

S.V. METH.

JONES & COMPANY,

COPPERFIELD ROAD

LONDON, E.

LARGEST MAKERS IN THE KINGDOM.

We are prepared to supply METHYLATED SPIRIT in 5-gallon quantities at Lowest Prices.

REDUCTIONS TO LARGE BUYERS.

SAMPLES FREE.

A NUTRIENT AND A STIMULANT.

ARMOUR'S BEEF JUICE

Is a concentrated, palatable nutrient prepared from Prime, Lean Beef by cold expression, and is free from objectionable preservatives. Containing a high percentage of uncoagulated albumen, and being extremely rich in stimulating properties, commends it to the Medical Profession as a valuable food and tonic during critical illness and convalescence.

DOSE—One Drachm in water, or soda water as may be directed.

Sold by all Wholesale Houses at a most moderate price.
Should there be any difficulty in obtaining a supply, please communicate with

ARMOUR & COMPANY,
LONDON, E.C.

STERN'S VASELINE (PARAFFIN MOLLE, B.P. 1898),

MANUFACTURED BY

STERN BROS., 57 Gracechurch Street, LONDON, E.C.; and Glasgow, Paris, &c.

Four Factories. Ask for Samples and Prices Trade only Supplied.

Analytical Report on Stern's Paraffin Molle, Alb. and Flav. B P. 1898:—

"The samples of six qualities of White and Yellow Petroleum Jelly submitted to me for analysis answered the requirements of the New British Pharmacopœia for Soft Paraffin (Paraffinum Molle).

"There were no traces of fixed oils, fats, or resin in any of the samples, and no residue on ignition.

"The neutral character and satisfactory consistence of the Jellies, and the absence of acrid odour when melted, showed that they had been carefully manufactured.

"In respect to quality they are superior to most of the Petroleum Jellies on the market.

(Signed) "E. J. MILLARD, F.C.S., F.R.M.S., &c."

60 YEARS' SUCCESS.

HOPGOOD'S NUTRITIVE AND SEDATIVE HAIR CREAM.

The only preparation for the HAIR AND SCALP recommended by the MEDICAL FACULTY.

Medical Testimonials.

"I feel much pleasure in being able to recommend (with confidence) your NUTRITIVE CREAM in all cases of irritation of the scalp and accumulation of dandruff or pityriasis, in each of which I have freely used it, and with unfailing success.
"JOHN A. WALCOTT, M.D."

"I have very great pleasure in bearing testimony to the value of your NUTRITIVE AND SEDATIVE HAIR CREAM in cases of irritation and other secretions of the skin of the head, having witnessed, when practising in Ryde, its beneficial effect on many occasions. "E. H. MARRIOTT, M.R.C.S., Lond."

PREVENTS BALDNESS, SCURF, GREYNESS, AND IRRITATION OF THE SCALP

Bottles, 1s. 6d., 12s. 6d. doz.; 2s. 6d., 20s. doz.; 3s. 6d., 30s. doz.

IMPORTANT TO EXPORTERS—PROPERLY STOCKED KEEPS IN PERFECT CONDITION TWO YEARS.

Wholesale and Export Agents. OSBORNE, GARRETT & CO., 51 FRITH STREET, LONDON, W.

Established 1855. ROBINSON'S ORIGINAL Excise Drawback on Export Orders.

CONCENTRATED WATERS.

STANDARDISED TO B.P. 1898.

When diluted in the proportion of one part to forty parts of water at 60° temperature, they faithfully represent the Medicated Waters of the British Pharmacopœia. They are always of uniform strength, and will keep good any length of time in any climate.

Aqua Amygd. Amar. Conc. (U.S.)	4/- per lb.	Aqua Cassiæ Conc.	4/- per lb.
" Anethi, Concent.	4/- "	" Flor. Aurant.	8/6 "
" Anisi "	4/- "	" " Sambuci Conc.	8/6 "
" Camphoræ "	4/- "	" Fœniculi Conc.	4/- "
" Carui "	4/- "	" Menth. Pip. Conc.	4/- "
" Cinnam. Ver. Conc.	6/- "	" " Ang. Conc.	8/- "

Aqua Menth. Virid. Conc.	4/- per lb
" Pimentæ "	4/- "
" Pulegii "	4/- "
" Rosmarini "	4/- "
" Rosæ "	6/6 "
" " Virgin "	10/6 "

The above may be had in ½-lb. or 1-lb. Bottles and upwards, through most of the Wholesale Drug Houses.

Each Bottle has the Inventor's Protection Label over the cork, without which none are genuine

SUPERIOR ORANGE WINE (Vin. Aurantii, B.P. 1898).

Samples of any of the above sent free on application from

B. ROBINSON & CO., LTD., Distillers and Brewers of British Wines, **CHURCH ST., PENDLETON, MANCHESTER.**

A. MILLAR & CO., LTD., DUBLIN

PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.

Hunyadi János

The Prices of the above (to the Trade) have been fixed by the Proprietor, Mr. ANDREAS SAXLEHNER, at—

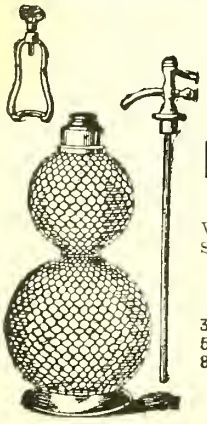
22/6 per case of 25 large Bottles; **35/-** per case of 50 half Bottles; for Single Cases.
21/- " " " **32/-** " " " ; for 5 Case lots

NET CASH. CARRIAGE PAID.

INGRAM & ROYLE, LTD.

LONDON: East Paul's Wharf, 26 Up. Thames St., E.C.
LIVERPOOL: 19 South John Street.
BRISTOL: Bath Bridge.

Price List of all Natural Mineral Waters, Salts, &c., on application.



ESTABLISHED HALF A CENTURY.
PRIZE MEDALS AWARDED AT ALL THE EXHIBITIONS.

SUPPORT ENGLISH MANUFACTURE.

EUGENE CÉRAUT & CO.'S LATEST

NEW PATENT SELTZOGENE

The Best Seltzogene Extant & Warranted.

Wear and Working Guaranteed. No more Screwing required. Tap cannot get corroded.

GREAT REDUCTION IN PRICE.

Patent Wire.	Cane.
3-Pint..11/-.....	12/-
5-Pint..14/9.....	15/9
8-Pint..22/6.....	25/-

Large Discounts allowed off for quantities.

SELTZOGENES & SYPHONS.

SYPHONS.

Best English Block Tin Tops and Ebonite Fittings, from 18/- per dozen.

HEADS of guaranteed quality.

VASES—Best Crystal and Colours.

PRICES ON APPLICATION.

CONTRACTORS TO HER MAJESTY'S GOVERNMENT

The Premier Manufacturers in the United Kingdom.

SOLE ADDRESS—
139 & 141 FARRINGDON RD., LONDON, E.C.

"TRAUMATOL"

(TRADE MARK).

THE ONLY PERFECT ANTISEPTIC, AND AN IDEAL SUBSTITUTE FOR IODOFORM.

Traumatol is practically the iodide of the non-poisonous portion of commercial Carbolic Acid—or, chemically, the Iodide of Cresylic Acid. It is the antiseptic most used in the large hospitals and clinics of Paris, and has been reported upon by the Chirurgical Society of Paris "**as the only antiseptic substance which fulfils in every detail the exacting requirements of modern medicine and surgery.**"—*Vide* Report, Oct. 29, 1895.

Traumatol is a perfect substitute for iodoform. It does not produce pustular eruptions, and is entirely free from the objectionable odour which characterises iodoform. It is supplied either as a ***light grey powder,*** which may be used as a dusting powder and in every way and for the same purposes as iodoform, or as a liquid — the mother-liquor — or ***Liquid Traumatol,*** which is really a concentrated antiseptic solution only requiring dilution with water for use as a lotion, injection, gargle, wash, &c.

Price: TRAUMATOL POWDER, 20/- per bottle; TRAUMATOL LIQUID, 30/- per doz. bottles.

The "AERIZER." (Registered.)

The value of the Globe Nebulizer as a means of treating affections of the respiratory organs is appreciated by the medical faculty throughout the world. The price, however, detracts from its universal prescription to patients of limited means, and in answer to oft-repeated requests we have pleasure in announcing the introduction of the "AERIZER," an instrument equally as efficacious as the original instrument, but at a great difference in price.

The "AERIZER" does not produce a spray, **but a cloud of vapour,** which can be inhaled deeply into the respiratory passages without causing the slightest irritation.

Any solution may be used—aqueous, oily, or alcoholic; there is no fear of the instrument getting out of order, as it is of extremely simple construction, contains no complicated parts, and is sold at a price within the reach of all.

Price 72/- per dozen, subject.

Oppenheimer, Son & Co., Ltd., Manufacturing Chemists, 179 Queen Victoria St., London, E.C.

"MOST INTERESTING EXHIBIT."

E. Merck

E. MERCK
16 Jewry St.,
LONDON,
E.C.

Concerning our Exhibits of rare and medicinal Chemicals at the CHEMISTS' EXHIBITION at Manchester, June 19th to 22nd, "THE CHEMIST AND DRUGGIST" says :—

"MR. E. MERCK, of Darmstadt, had perhaps the most "interesting exhibit in the hall, as it was entirely confined "to rare and medicinal chemicals displayed in jars, the "names of these products occupying four columns in the "Exhibition Catalogue. Amongst the chemicals which we "noticed were a **SERIES OF GLYCEROPHOSPHATES,** includ-"ing the scaled-iron compound which closely resembles "ferri et quin. cit. The firm showed other scale com-"pounds, a **COMPLETE LINE OF PHOTOGRAPHIC CHEMICALS,** "**IODIDES, BROMIDES, SALICYLIC ACID** and **SALICYLATES,** "benzoic acid and benzoates, and many vegetable active "principles, besides **PURE CHEMICALS FOR SCIENTIFIC AND** "**TECHNICAL PURPOSES,** and several synthetic products. "The exhibit, as a whole, was intended to be an object-"lesson to visitors as to the range of the firm's manu-"factures."

E. MERCK,
Moscow.

MERCK & CO, New York.

Darmstadt

HAZELINE

BRAND OF
DISTILLED WITCH HAZEL

IS a highly efficient styptic and anodyne preparation of the volatile principles of the bark of the green twigs of the *Hamamelis virginica*. It is a colourless transparent fluid, of pleasant aroma and taste, suitable for internal or external use. Ordinary preparations of the witch hazel are inferior to it in activity, and 'Hazeline' possesses the further advantages of being free from colouring matter and inert extractive and of being more cleanly in use.

Supplied in small and large bottles, at 14s. and 42s. per dozen.

'HAZELINE' CREAM

An astringent, emollient preparation, effectively combining the active principles of the witch hazel with the natural aseptic ointment base 'Lanoline'

In glass pots, 8s. 6d. per dozen, and in small and large collapsable tubes, 4s. 6d. and 8s. 6d. per. dozen.

'HAZELINE' SNOW

Contains 50 % of 'Hazeline' in a non-greasy vehicle, and therefore provides a means for local application when fats, oils or glycerin are objected to. It has a delightfully soothing and softening action on the skin.

In glass pots, 8s. 6d. per dozen.

BURROUGHS WELLCOME & CO.,
LONDON AND SYDNEY . . . . . .

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Note New Sizes & Prices

TRADE "VASELINE" MARK.

	10-lb. tin	25-lb. tin	50-lb. tin	Half-barrel (about 1½ cwt.)	Barrel (about 3 cwt.)
White	9/3 per tin	22/- per tin	41/8 per tin		
Yellow	5/- ,,	11/8 ,,	21/6 ,,	45/6 per cwt.	40/- per cwt.
Red	3/6 ,,	8/- ,,	13/4 ,,	28/- ,,	24/6 ,,

SECOND QUALITY.

White	7/- per tin	15/- per tin	27/6 per tin	58/- per cwt.	52/6 per cwt.
Yellow	3/3 ,,	7/3 ,,	13/4 ,,	24/6 ,,	21/6 ,,
Red	2/3 ,,	5/- ,,	9/- ,,	19/6 ,,	16/9 ,,

CHESEBROUGH MANUFACTURING CO., 42 Holborn Viaduct, LONDON, E.C.

O'BRIEN'S SAFEST, QUICKEST, & CHEAPEST.

PATENT. The only Self-closing Check Tills. TWO GOLD MEDALS.

PAY FOR THEMSELVES IN AN INCREDIBLY SHORT SPACE OF TIME.

CHECK TILLS

FOURTEEN DAYS' TRIAL BEFORE PURCHASE.

Send for particulars or for one on trial to—

THOMAS O'BRIEN
SLATER ST., BOLD ST., LIVERPOOL

TRADE MARK 'PEPULE' BRAND OF

DIGESTIVE PRODUCTS.

Messrs. FAIRCHILD BROS. & FOSTER beg to announce that the 'Fairchild' Digestive Products which Messrs. BURROUGHS WELLCOME & CO. have heretofore put up and issued under their registered trade mark brand 'Tabloid' will here after be put up by Messrs. FAIRCHILD BROS. & FOSTER under their registered trade mark brand 'Pepule.' These 'Pepule' Brand Products will be supplied to the trade by Messrs. BURROUGHS WELLCOME & CO. as agents.

'Pepule' Pepsin, gr. 1 & gr. 3.

gr. 1, bottles of 25 and 100, 6s. and 16s. per doz.
gr. 3, ,, ,, ,, 10s. and 27s. ,, ,,

'Pepule' 'Zymine,' gr. 3.

Bottles of 25 and 100, 12s. and 36s. per doz.

'Pepule' 'Zymine' Compound.

Each contains—

'Zymine'	*gr. 2*
Bismuth Subnitrate	*gr. 3*
Powd. Ipecacuanha	*gr. 1/10*

Bottles of 25 and 100, 12s. and 36s. per doz.

These Prices are subject to B. W. & Co.'s Terms.

N.B.—The words 'Fairchild,' 'Zymine,' and 'Pepule' are trade mark brands which indicate that products supplied under these brands are manufactured solely by Fairchild Bros. and Foster.

Originated and Manufactured by
Fairchild Bros. & Foster,
NEW YORK.

Agents for Europe, Asia, Africa, and Australasia:
Burroughs Wellcome & Co.,
LONDON and SYDNEY.

THE CHEMIST & DRUGGIST SUPPLEMENT.

LONDON: 42 CANNON STREET, E.C.
SATURDAY, JULY 14, 1900

Businesses for Disposal
Businesses Wanted
Premises to Let
Auction Sales

ALSO EXCHANGE COLUMN.
For Bargains see end of this Supplement.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 56 LUDGATE HILL, E.C.

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

VENDORS have the advantage of Messrs. O. & Co.'s direct attention and advice as to value without additional fee.
PURCHASERS are invited to forward a statement of their requirements, which will be notified in a register free of charge.
VALUATIONS having always been a prominent feature, Messrs. O. & Co. trust that the lengthened period during which they have enjoyed the confidence of the profession will be regarded as a sufficient proof of the sincerity of their endeavours to conduct these transactions in an honourable and straightforward manner.

1.—£2,300.—**WITHIN EASY DISTANCE OF CITY.**—First-class modern pharmacy; returns average £2,300, chiefly ready-money; the shop is handsomely-fitted and well-stocked; commodious residence held on lease; vendor being desirous of effecting an early transfer will deal liberally with a purchaser; valuation terms can be arranged.

2.—£700.—**LONDON, S.E. (Suburb).**—Retail and Dispensing Business; returns last year over £700, *profit* £240; attractive shop, nicely fitted and stocked; comfortable residence, private entrance; price £550.

3.—£900.—**LONDON, N.W. (Busy Main Road).**—Well-established Business; returns between £800 and £900 yearly; commodious shop, well fitted and stocked; house contains eight rooms, &c.; private entrance; price about £750.

4.—£500.—**LONDON, S.E. (Good Business Thoroughfare).**—Cash Business; returns about £500 yearly, *profit* £236; the shop is nicely fitted and well stocked; convenient house; 21 years' lease; price, valuation of stock and fixtures only required.

5.—£1,000.—**LONDON, N.W.**—Good-class Dispensing and Retail Business; returns increase yearly, present rate £1,000; *net profit* £400; full investigation permitted; very good house, on lease; terms, valuation of stock and fixtures, and premium to be arranged.

6.—£900.—**LONDON (Northern Heights).**—Good-class Dispensing and Retail Business; returns exceed £900; handsome shop and good stock; commodious residence; price about £800: vendor retiring.

7.—£550.—**CRYSTAL PALACE DISTRICT.**—Light Retail and Dispensing Business; returns about £550; *profits good*; very few patents sold; corner shop, nicely fitted and stocked; good house, bath-room, &c.; low rental; no immediate opposition; about £500 required.

8.—£2,000.—**WEST MIDLANDS.**—First-class locality; Dispensing and Retail Business, *giving a net profit of over* £500 *per annum*; the shop is attractive, and is well fitted and stocked; large residence, on lease; particulars on application.

9.—£1,000.—**MIDLANDS.**—Family Retail and Dispensing Business; returns last year £1,000, *with excellent profits*; modern-fitted shop, and good stock; comfortable residence; rent £50; price £750; part may remain.

10.—£300.—**GRAVESEND (near).**—Small profitable Business; returns nearly £300, under an assistant; could be doubled by the attention of a principal; nicely-fitted shop; small residence; price about £200; vendor will grant a lease.

11.—£475.—**LANCASHIRE.**—Retail and Dispensing Business; *no opposition*; returns £475; this year is showing a good increase; full prices for all except patents; large convenient shop and good working stock; population 6,000; price, valuation of stock and fixtures and small premium.

12.—£1,200.—**FASHIONABLE SEASIDE RESORT (South).**—Good-class Retail and Dispensing Business; situate in one of the principal streets; returns last year £1,200; *gross profit about half*; modern shop and very good stock; large house, held on lease; about £650 required.

13.—£900.—**WITHIN EASY DISTANCE OF LONDON.**—General Retail Business, held by present vendor over 30 years; returns between £850 and £900; *gross profit* £490; the shop has double front, is well fitted and stocked; comfortable residence, 14 years' lease; price £750.

14.—£900.—**POPULAR WATERING-PLACE.**—Well-established Business, situate in the main street; returns £900; *net profit* £300; price £600, for which full value is offered.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.
Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the special attention of a London Agent.

SPECIAL NOTICE.—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale suitable for Gentlemen with small capital, from £200 to £500.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

TO LET.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

BRADFORD (the Royal Arcade, Manningham Lane).—Shops, large or small, to suit Chemist and Druggist, or any business; Offices, various sizes; Doctors' Chambers, Store or Work Rooms. For rent and particulars, apply to Messrs. Mawson & Hudson, Architects, 2 Exchange, Bradford; or Mr. Atkinson, Estate Office, on the Premises.

BRADFORD.—Very prominent corner Shop Premises to Let, The Arcade, Westgate, one of the busiest thoroughfares in the city; handsome stone building, 3,000 yards floor area; or could be divided; also basement, with 1,500 yards area; electric light; recently occupied by Worsley's, House Furnishers; immediate possession. Apply, Henry Lingard, Bradford.

SHOP and 6 Rooms.—Fine opening for Chemist and Dentist; near London; on lease £40, or sold on easy terms, Freehold. "Shop," Roberts, 10 Paternoster Row, E.C.

SHOP in Hampton Road, Twickenham; excellent position for Chemist, between high-class baker and grocer; no other within a mile; only one to Let in block of four; front put in to suit tenant; 6 good rooms, bath (h. and c.), modern conveniences; rent £40. Weekes, Hampton Road Stores, Twickenham (Strawberry Hill Station).

PARTNERSHIPS.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

PARTNERSHIP, £1,000.—Wanted, a smart up-to-date business gentleman, having original ideas, and who means work, to join a thoroughly sound, pushing, old-established Wholesale Manufacturing Firm in place of partner retiring; every investigation courted. Full particulars to principals or their solicitors on applying to G. O. (228,24), Office of this Paper.

APPRENTICESHIPS.

APPRENTICE.—Wanted a well-educated youth as Apprentice in good-class Retail and Dispensing Business; every facility for acquiring a thorough knowledge of the business; one who has passed the Preliminary examination preferred; outdoor or indoor. F. J. Parker, Huyton Pharmacy, Huyton, Liverpool.

A SMART youth wanted, as Apprentice, in a good-class Light Retail and Dispensing business; outdoors preferred; must have passed Prelim. exam. or equivalent. Whittaker, Chemist, 285 Oxford Street, Manchester (opposite Owen's College).

F. J. BRETT

VALUER,

37 Waterloo Street, LEICESTER.

References to Principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLY INVESTIGATED.

VALUATIONS.—The long and varied experience of F. J. BRETT in valuing all classes of Businesses throughout the United Kingdom, together with his ever-increasing connection, renders it desirable that you should secure his services, in order to have your interests well protected. Stocks carefully taken.

£1,520 returns.—**MIDLANDS.**—Very old-established Retail, Dispensing, &c., in prominent position of large town; prices are good and practically no cutting, although it is well adapted for an up-to-date trade; net profit about £500 per annum; there is also an appointment realising £130 per annum; price £1,500, or reasonable goodwill and valuation; references required of applicants.

£775 returns.—**LONDON.**—An exceptionally profitable Retail; fully one-half profit; returns are chiefly own preparations; this business, in hands of pushing man, is capable of much extension; price £650.

£880 returns.—**LAKE DISTRICT.**—General Light Retail, in close proximity to the Lakes; Business is old-established; there is a good house, with yard and garden attached; price £500.

£2,000 returns.—**YORKS.**—Wholesale and Retail Business; very old-established; the retail trade is largely in proprietaries, and the wholesale in essences, &c.; price £700.

£500 returns.—**LANCS.**—Exceptionally profitable Retail, with unusual scope for increase; net profit £200; price £400.

£900 returns.—**SOUTH COAST.**—Good-class Retail and Dispensing, in favourite seaside resort; good house; net profit £300; price £600.

Mr. BRETT has buyers for large concerns returning from £5,000 to £10,000, who are prepared to pay cash down.

BERDOE & CO.

CHEMISTS' TRANSFER AGENTS AND VALUERS,

85 JEWRY ST., FENCHURCH ST., E.C.

Established 1870.

VALUATIONS are in all cases conducted by a member of the firm, and the most careful attention to details, which is so essential, may be relied upon.

TO INTENDING VENDORS.

COPY. Aldeburgh-on-Sea,

To Messrs. BERDOE & CO. 9/7/1900.

Gentlemen,—

Mr. Martin has to-day completed purchase of this business, and paid over the £..... ....and signed the Agreement and Lease.

I shall be glad, therefore, if you will deduct your commission and send me the balance of deposit.

Please accept my thanks for your so promptly sending me a customer; you only had it two days before the business was sold, the first customer having purchased it.

Yours truly,

(Signed) G. W. WIDDOWSON.

Messrs. BERDOE desire to inform Vendors that they frequently sell Businesses as quickly as the above was sold. They have at the present time a number of clients wanting to purchase Businesses, requiring the investment of from £500 up to £3,000; strict confidence guaranteed. Businesses inspected anywhere within 100 miles of London if desired. Correspondence invited.

UP-TO-DATE CHEMISTS

Should turn to page 36 in this year's CHEMISTS' AND DRUGGISTS' Diary, where we give two reasons why all Chemists should have an annual "STOCKTAKING."

JUDD & MANNERS

CHEMISTS' VALUERS,

Transfer Agents and Accountants,

76 CANNON STREET, LONDON, E.C.

By order of the Executors.

Re the late Mr. D. S. DAVIES.

MESSRS. JUDD & MANNERS are instructed to sell by private treaty as a going concern, the Chemist and Druggist's business situate at 45 Craven Street, London, W. The returns are over £1,000 per annum at very good prices, consisting mainly of Dispensing and Family Retail trade. The premises include a splendid house of 14 rooms and 6 cellars, with private entrance and every convenience suitable for sub-letting if desired, and a handsome modern pharmacy with up-to-date appliances and complete stock.

BATH.—The first-class Cash Retail and Dispensing Business as carried on for many years by Mr. H. J. Masters, at No. 5 Cheap Street, Bath. The returns for the last 3 years average nearly £3 000 per annum at good prices. The Pharmacy is modern and handsome, and the stock-in-trade is large and well assorted. The domestic accommodation is large and very convenient. Price required about £1,500 or valuation; terms can be arranged. Full particulars and orders to view upon application to Messrs. Judd & Manners, Agents to the Executors, 76 Cannon Street, London, E.C.

PURCHASERS seeking reliable Businesses are invited to call, or write stating their requirements. Messrs. J. & M. have a number of Businesses for Sale varying in price from £200 to £3,000.

List of Businesses for Sale free on application.

Messrs. JUDD & MANNERS undertake every description of Accountancy. Books Opened, Posted, Investigated, Audited and Certified. Balance Sheets prepared showing the trading results and gross and net profits, &c., for Wholesale or Retail concerns in any part of the United Kingdom. References permitted to past and present Clients, also to the Leading Wholesale Houses in the Trade.

THOS. TOMLINSON & SON

Chemists' Transfer Agents and Valuers,

9 NEW CANNON STREET, MANCHESTER.

Valuations Conducted with careful attention to detail.

£1,000 returns.—**MIDLANDS.**—Good General trade; lot of own Proprietaries; well-fitted shop (mostly by Treble); private entrance to good house; satisfactory reason for disposal; price, valuation only.

£600 returns—**SHEFFIELD.**—Growing Business; General Light Retail; profit over £200 net; rent £40; lease can be had; price £350, fair value of stock and fixtures.

Inventoried Stocktakings for ascertaining profit or other purposes.

TERMS ON APPLICATION.

Telegraphic Address—"TOMTOM." Telephone No. 3965 National.

J. SHACKLADY,

CHEMISTS' VALUER AND ACCOUNTANT

56 Hanover Street, LIVERPOOL.

BUSINESSES WANTED.

3s. 6d. for 50 words or less: 6d. for every 10 words beyond.

MIDLANDS.—Advertiser has just sold his business in S. London, and wishes to purchase one in Midlands, at once; good sound concern; price about £1,000, or one capable of increase; Warwick, Leicester, Northampton, Derbyshire, or surrounding counties preferred. "Promptitude" (228/37), Office of this Paper.

ADVERTISER wishes to purchase a good sound Retail and Prescribing Business; thoroughly established, and returning about £700 per annum; good house indispensable; country town preferred, but not essential. Give full particulars, and lowest price for cash, Elton, c/o Whitaker, Chemist, Brierfield.

WANTED, to purchase, a small Chemist's Business in the country, not more than 50 miles from London; valuation not to exceed £200. Address, T., c/o Mrs. English, Nene Parade, March, Cambs.

WANTED, Business returning £600 to £800, with scope for increase, within easy distance of London; good house and neighbourhood essential; preference given to one in a main thoroughfare; reasonable rent. Give full particulars and lowest cash price, "Tenax" (228/33), Office of this Paper.

BUSINESSES FOR DISPOSAL

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

BANKS OF THAMES (few miles from Richmond).—Good-class Retail Dispensing and Prescribing Business; returns £650, and yielding a clear net profit of over £250; rent £35, including rates and taxes, held on lease; well-fitted shop and good stock; price £525, or by valuation. Apply, Messrs. Berdoe & Co., 35 Jewry Street, Fenchurch Street, E.C.

BIRMINGHAM.—First-class Dispensing and Retail Chemist's Business, with residence, in the city of Birmingham; good stock; 12 years' lease; price £700. Apply, C. A. Loxton & Newman, Solicitors, Walsall.

BIRMINGHAM.—Profitable Cash Retail Family, Dispensing, and Prescribing Business; long lease; moderate rent; excellent house; no Stores opposition. Full particulars on receipt of genuine inquiry from purchaser; about £700 cash. Apply, McIsaac & Co., 165 Hagley Road, Birmingham.

BIRMINGHAM (Suburb).—Dispensing, Prescribing, and General Retail Business; returns £750; net profit £250; well stocked; small 8-roomed house, including bathroom; 12 years' lease; rent £30; good reason for disposal; every facility given for investigation; thoroughly genuine; would reduce stock by £50 if required; price £600. "Benzoin" (228/14), Office of this Paper.

BOLTON (Lancashire).—Owner of two Businesses is open to dispose of one on advantageous terms to responsible party. Principals only may have particulars from J. Myers, Rumworth Drug Stores, St. Helen's Road, Bolton.

BOLTON (Lancashire).—Death cause of sale; valuable centrally-situated Chemists' and Druggists' Business for immediate Disposal; established over 50 years; a number of exceedingly profitable Specialities included in the sale; first-class fittings, stock, &c.; has been in hands of late proprietor over 30 years. Apply, 136 Bradshawgate, Bolton.

DERBYSHIRE (North-east).—Light Retail and Prescribing; very profitable; returns £4 under management, easily increased; large shop and store-room; excellent detached house; gardens back and front; poultry-runs; close to station; rent £20; lease; must sell on account of illness; £100, valuation, or offer. J. S. (228/23), Office of this Paper.

ESSEX.—Thirty minutes' ride from City, in large village; no opposition; profitable Light Retail and Prescribing Business; solely under management; returns £9 to £10 weekly; net profit nearly £200 clear; low rent; lease or agreement; nice house; price £325 including large stock; sole cause of sale wanting manager elsewhere. Apply, Berdoe & Co., Valuers, 35 Jewry Street, E.C.

FOLKESTONE.—Valuation only, will secure a good-class Retail, Dispensing, and Prescribing Business; chiefly left to Assistant; excellent position; low rent, on lease; net profit £275, after paying all expenses; about £500 required. Apply, Messrs. Berdoe & Co., 35 Jewry Street, Fenchurch Street, E.C.

HOME COUNTY.—A good-class Family and Dispensing Business in a small market town, the centre of an important agricultural district; established by present proprietor 10 years ago; returns exceed £1,450 per annum, at excellent prices; serious illness sole cause of sale; handsome and attractive shop, well fitted and stocked; convenient storage in the rear; highly-productive garden; price £1,100, of which part could remain to suit purchaser; references given and required. "Senna," c/o Harker, Stagg & Morgan, 15 Laurence Pountney Lane, E.C.

LANCASHIRE.—Mixed Retail and Prescribing Business, in small town, at valuation of stock and fixtures; returns over £800; rent £45; large shop, well fitted; convenient house, with large garden. Apply to "Mag. Sulph." (220/8), Office of this Paper.

LIVERPOOL.—Branch Business in main road; returns £570; principal could greatly increase; price £275. 224/8, Office of this Paper.

LONDON SUBURB.—Good-class Retail, Dispensing, and Prescribing Business, situate in main road; double-fronted shop, modern fittings, and well stocked; low rental; returns between £600 and £700 per annum, with good profits; price £525, or valuation terms if preferred. Apply, 224/12, Office of this Paper.

LONDON (S.W. Suburb).—Retail and Dispensing Business, in main road; convenient house, side entrance; returns £400; rent £42; good opening for Dentist. "Developing" (225/4), Office of this Paper.

MANCHESTER.—Light Retail and Dispensing Business; busy thoroughfare; shop nicely fitted and well stocked; thickly-populated district; returns about £11 weekly; price £400 (about valuation), or near offer. Apply, with reference, 227/40, Office of this Paper.

MIDLANDS.—Light Retail and Dispensing Business, at present returning over £12 weekly under management; good position on main road of large manufacturing town; convenient premises, held under lease; shop nicely fitted, with good window; price, valuation, about £200, or offer; satisfactory reasons for sale. Apply, "Ruby" (227/34), Office of this Paper.

MIDLANDS.—Old-established Light Retail; in owner's hands about 28 years; lease to run 20 years; in rapidly-increasing neighbourhood; Gilbey's agency attached; returns might be doubled by energetic man; ill-health reason of disposal. 225/38, Office of this Paper.

NORTH OF ENGLAND (in busy Manufacturing Town).—For immediate Disposal, a good-class Light Retail and Dispensing Business, with Wines; returns over £1,250, and show continual increase, yielding £300 a year clear profit; fine large shop, nicely fitted and well stocked; will sacrifice for £600 to secure early sale. Apply, in first instance, "Abroad" (228/38), Office of this Paper.

SEASIDE.—A new small (Branch) Chemist's Business for Sale; advertiser, who has large business and cannot work two, will sell for small value of stock and fixtures; returns, under youth, £300; populous district and great scope; every information to cash buyer; no agents. 127/65, Office of this Paper.

SHROPSHIRE.—£200, or offer, for unopposed good Retail and Prescribing Village Business; much neglected; returns £380; good profits; three good specialities; could be largely increased by giving full time; rapidly-growing district; large industries employing 2,000 men; house and garden; healthy and pleasant; low rent; satisfactory reasons for sale. "Mel" (226/31), Office of this Paper.

SOUTHPORT.—Old-established Chemist's and Dentist's Business for immediate Disposal; well-fitted shop and good warehouse; house very good; valuation or offer; photo of premises can be sent. Address, T. B. (224/2), Office of this Paper.

SURREY.—A genuine, Mixed Country Business; steadily increasing; profit last year £245; rent £30; price £450. Apply, "Nemo" (128/34), Office of this Paper.

WEST OF ENGLAND.—Market town; easy hours; no competition; Light Retail, Dispensing and Prescribing Business with Mineral-waters; sole cause of sale going abroad; convenient 12-roomed house and a large and delightful garden; returns £1,600; net profit £500; stock and fixtures worth £1,200; price £1,500; freehold can be bought or lease granted. Apply, Berdoe & Co., Valuers, 35 Jewry Street, Fenchurch Street, City.

WORCESTERSHIRE.—Well-established Retail and Prescribing Business in good position; nicely-fitted shop; premises small, but convenient; 10 years' lease; very low rent; returns over £800, and increasing; price, valuation of stock and fixtures only, about £350. "Statim" (227/28), Office of this Paper.

A FIRST-CLASS Dispensing and Family Retail Business for Sale; old-established; satisfactory reasons for disposal. For price and particulars, apply "Beta" (97/46), Office of this Paper.

A GREAT Bargain.—For immediate Disposal, old-established Chemist's Business, in South Yorkshire; in main thoroughfare; corner shop, well fitted; greatly neglected owing to Proprietor having to give the whole of his time to Wholesale; in present hands over 29 years; to prompt cash purchaser, valuation of stock and fixtures only; rent low; to young pushing man a fortune. 225/12, Office of this Paper.

AN offer wanted for small Seaside Business: full investigation offered to a bona-fide purchaser; value of stock and fixtures about £200. Apply, "Lux" (130/1), Office of this Paper.

BUSINESS for Sale, with pleasant shop, with little back room connected with three warehouses, in one of the best streets in one of the best business towns in South Yorkshire: Light Retail; returns £400 to £500; a good Dentistry, Photographic, Wine, and Wholesale trade can be made. Particulars, apply, "Anthem" (224/14), Office of this Paper.

CHEMIST'S and Druggist's Business; old-established; good situation; Midland manufacturing town; rare opportunity. Belcher & Son, Auctioneers, Darlaston.

CHEMIST'S and Stationery Business in Somerset, to be Sold at a valuation; owner retiring; same hands 40 years. M., 34 Paragon, Bath.

COMPULSORY SALE.—Owing to ill-health and age of owner, a going concern; Retail Business, with Dental Practice and small Wholesale combined, in rising suburb of London; what offers? no reasonable offer refused. All particulars on application, J. A. L., Church Place, Leytonstone, N.E.

FOR immediate Disposal (cheap), an old-established Family and Dispensing Business; busy main road (London); long lease; good house and garden; owner leaving Drug trade; much neglected. Particulars from W. C., 50 Linnell Road, Peckham.

OWING TO ILLNESS.—For immediate disposal, good Prescribing, well-stocked country Business; convenient premises; low rent; will sell for £150 cash; no opposition; well-populated; easily doing £450; good profits. Address, Hazart, Jersey.

SELECT Business; incoming £250 a year; returns £900; capable of much enlargement; growing London suburb; main road; handsome mahogany double-front; large house, side and back entrance; price £800, valuation, offer or trial; requires only investigation. 227/15, Office of this Paper.

£600.—Genuine old-established Chemists' Retail and Dispensing Business; returns £750 under management; good stock; proprietor retiring; investigation invited; market town, Norfolk. "Chemicus," c/o Sanger & Sons, Winsley Street, Oxford Street.

£50.—Druggist's Shop, in leading thoroughfare (Birmingham); stock (almost complete) included in above price; shop double-fronted, with little opposition; a really good opening for energetic person; annual rental or lease optional to buyer; excellent reason for disposal. Apply, 130/28, Office of this Paper.

£1,250.—First-class Country Retail and Dispensing Business, in the best part of a busy little market town in the Midlands, for immediate disposal through the serious illness of the Proprietor; the returns average over £1,450 a year; price £1,250, or a moderate premium for goodwill, and valuation of stock and fixtures. Apply, "Midlands," c/o Messrs. Hearon, Squire & Francis, 38 Southwark Street, London, E.C.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond.

The Publisher of "The Chemist and Druggist" wishes it to be understood that he is not in any way responsible in respect of Advertisements answers to which are to be sent to this Office.

Assistants applying for any of the Situations advertised below are recommended in no case to send Original Testimonials. If they send Photographs or any Documents which they wish to have returned, a Stamped Addressed Envelope should be enclosed.

Advertisers whose Announcements appear under this heading can make arrangements to see applicants for the situations at our Offices, by giving a few days' notice to THE PUBLISHER, 42 Cannon Street, E.C.

RETAIL.

ALFRETON.—Junior Assistant (20-23), one just out of apprenticeship preferred, for good-class Country business; short hours; half-day holiday weekly; no night or Sunday duty; outdoors; pleasant neighbourhood. All usual particulars, photo if convenient, salary required, Houfton, Chemist, Alfreton, Derbyshire.

ANDOVER.—Wanted, Junior Assistant or Improver, for a Country business; hours short, Wednesdays at 2 P.M. Enclose photo (to be returned) and full particulars, Bienvenu, 27 High Street.

BATH (near).—Junior Assistant, aged about 20, for good-class business; must be obliging and of gentlemanly manners and address. State age, height, references, salary required (indoors), when disengaged, and enclose photo (to be returned) to E. J. King, Pharmaceutical Chemist, Midsomer Norton, near Bath.

BAKEWELL.—Wanted, a qualified Assistant; outdoors; close 4 o'clock on Thursdays; no Sunday duty. Please state age, height, and salary required, to E. G. Carrington, Chemist, Bakewell.

BIRMINGHAM.—Smart Junior required, for quick Cash Retail, run on Store lines; outdoors. Kindly send full particulars, references, salary required, &c., with photo if possible, to Howe, 52 Avondale Road, Sparkbrook, Birmingham.

BIRMINGHAM and District.—Two smart Juniors required; good salary and commission. Apply, with full particulars, Magor (Limited), Old Square, Birmingham.

BIRMINGHAM.—Southalls', Birmingham, are in want of a qualified Junior Assistant; indoors. Send particulars and salary required.

BOMBAY.—Good Minor man required, at once; excellent appointment, with prospects of permanency. Full particulars to "Eastern" (130/66), Office of this Paper.

BOURNEMOUTH.—Active Junior wanted. State age, height, references, salary required (indoors), and enclose photo, to Gilbert & Hall, Chemists, Bournemouth.

BRIGHTON.—Wanted, at once, an Assistant (indoors) for first-class Dispensing and Light Retail business; good dispensing experience essential. Fullest particulars, with photo (to be returned), to Jeeves & Son, Brighton.

BRIGHTON.—Required, early in August, a Junior Assistant; qualified preferred; must be reliable Dispenser, and have been accustomed to assist at the Counter; fullest particulars of age, height, and experience to be given, and photo should be enclosed. Kilby Pears & Son, 16 Western Road, Hove, Brighton.

BUXTON.—An Assistant; good Dispenser; indoors. Apply, with particulars, age, photo, when at liberty, height, &c., to A. Thresh, Chemist, Buxton, Derbyshire.

CAPE COLONY.—Assistant, immediately; must be single, possess the Minor qualification, about 25 years of age, and have had good experience in a Country business; also a good and neat Dispenser; steady and sober habits indispensable; salary, 1st year, £140 per annum; 2nd year, £150; 3rd year, £160; sleeping accommodation provided or equivalent (outdoors), but to find own board; second-class passage paid out, conditional on a 3 years' agreement being signed. Address, "Cape," c/o Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

CHINA.—Wanted, a thoroughly competent Assistant; must have had good experience in first-class Dispensing and Retail; 4 years' agreement; passage paid out and home. Address, "Export," 64 Crutched Friars, E.C.

CHIPPENHAM.—Junior Assistant wanted, at once, for Agricultural and small Wholesale business; Cyclist preferred; would have to travel part time. Send age, photograph (to be returned), and all particulars to Edgson, Chippenham.

DARTFORD.—Wanted, competent Assistant; qualified preferred; outdoors. Apply, stating salary required and usual particulars, Cann, Chemist, Dartford, Kent.

DEVON (Seaside).—Wanted, for two or three months, a good and reliable outdoor Assistant; no Sunday duty. Apply fully, stating age, salary required, experience, &c., to C. F. Gosney, Chemist, Seaton, Devon.

DOVER.—Junior Assistant, in good-class business, by August 1; principally for Dispensing and stock. Usual particulars, to Ewell, 37 Town Wall Street.

EASTBOURNE.—Wanted, at once, reliable Assistant (indoors), either for permanency or till end of September. Please state full particulars and salary required, photo, if possible (to be returned), to E. G. Bayley, Alma Place Pharmacy, Eastbourne.

EXETER.—Wanted, at once, gentlemanly Assistant (indoors). Please give usual particulars and salary required, in first letter, Wynne Tighe & Son, Chemists, Exeter.

EXETER, for high-class Light Retail, early in August; qualified; under 30; Dental and Photographic experience preferred; outdoors; good progressive salary to pushing business man. Apply, enclosing photo and full particulars, to X. (130/41), Office of this Paper.

FAVERSHAM.—An Assistant wanted; one accustomed to a good-class country business; hours moderate; indoors; comfortable home; no Sunday duty. Apply, stating age, height, experience, and salary required, to M. Laxon, Pharmaceutical Chemist, Faversham.

GUILDFORD.—Junior required, immediately (outdoors), in a Light Retail and Dispensing. Apply, with full particulars as to age, references, salary required, &c., to W. Jacobs, Chemist, High Street, Guildford.

HARROGATE.—Qualified Assistant, in Dispensing and Photographic business, indoors. Apply, with usual particulars, to Chas. E. J. Eynon, Pharmaceutical Chemist, Harrogate.

HASTINGS.—Immediately, Assistant, qualified, and accustomed to good-class business; permanent berth for suitable man. Apply, with carte and usual particulars, Jameson, 1 Harold Place, Hastings.

HEREFORD.—Wanted, an Assistant, for Dispensing and Retail. State age, height, with salary and other particulars, Williams, Chemist, Hereford.

HERTS (Country).—Wanted, Part-time Assistant; outdoors; well up in Photography, and occasionally take charge. 227/36, Office of this Paper.

HORSHAM.—Junior, about 20, for middle of August; good address; outdoors; two kept; Light Retail, Dispensing, Photographic; half-day weekly; no Sunday duty. Usual particulars and photo, to Brassington, Horsham.

HORSHAM.—Wanted, at once, a gentlemanly qualified Assistant (indoors), with knowledge of Photography, accustomed to good-class Dispensing and Retail; two kept; easy hours, comfortable home. Apply, stating age, height, salary required, experience, &c., enclosing photo (to be returned), to Smith & Gallier, Horsham.

HUDDERSFIELD.—Wanted, an Assistant, for the Scientific Apparatus and Photographic department; must have a knowledge of chemical and scientific apparatus, particularly photographic, be well up in the various methods of printing, developing, toning, and re-touching. Enclose photo, state age, experience, and salary required, R. Cuthbert, Chemist, Huddersfield.

HULL.—Earle (Limited), Chemists, Hull, require a qualified Assistant; salary £2 a week (outdoors); hours 8.30 A.M. to 7 P.M., Saturdays, 10 P.M.; half-holiday Thursday. Applicants will please send copies of references to Managing Director, 22 Market Place, Hull.

LIVERPOOL.—Qualified Assistant, about 22 or 23, accustomed to good-class Retail and Dispensing. State age, height, salary, and when disengaged, to Strick, Pharmaceutical Chemist, Upper Brighton, Liverpool.

LIVERPOOL.—Qualified Assistant wanted (indoors), about 26, with good references. Apply, S. Stephenson, F.C.S., Pharmaceutical Chemist, 98 Kensington, Liverpool.

LIVERPOOL.—By August 1, qualified Assistant, to Manage Branch; unmarried; accustomed to good-class Dispensing and Retail; aged about 23; must have good credentials. Richardson, Sefton Park Pharmacy, Ullet Road, Liverpool.

LONDON, S.W.—Wanted, qualified Locum, for last week in July, to relieve during holidays; used to Store work. "Secretary," Francis & Son (Limited), 450 Brixton Road, S.W.

LONDON, S.W.—Wanted, a Junior Assistant (indoors). Apply, personally, or with full particulars, to Lloyd, 267 King's Road, Chelsea, S.W.

LONDON, S.W.—Wanted, smart third hand for Chemistry Counter; also young Stockkeeper with experience at Counter. Francis & Son (Limited), 450 Brixton Road, S.W.

LONDON, N.E.—Wanted immediately, a competent Assistant (indoors); comfortable home (bachelor's); liberal salary to reliable gentleman and good salesman; knowledge of Photography preferred. Apply personally, or by letter, stating age, height, salary, references, &c., J. L. Davies, 411 Mare Street.

LONDON, N.—July 30; active Junior, about 23, of good address, for modern business; outdoors. Apply, Talintyre, 144 Stroud Green Road, Finsbury Park, N.

LONDON, S.W.—Wanted, Junior, for six or seven weeks, during holidays. Apply, by letter, to Freke, 378 Coldharbour Lane, Brixton.

LONDON, W.—Assistant, with good Counter experience, in quick Cash business; 4 kept; hours 8 to 8.30, Saturdays 8 to 10; one evening off from 5 (fortnightly leave at 2); Sundays (every fourth) 5 to 7 P.M.; salary 35s. (outdoors). Full particulars to Bruce, Broadway, Ealing, W.

LONDON, W.—Immediately, Junior Assistant; indoors. In order to save time, please give the fullest particulars, Frank A. Rogers, Successor to Corbyn, 327 Oxford Street, W.

LONDON, W.—Wanted, at once, a competent Assistant, from 23 to 26; good dispenser. If by letter, give fullest particulars and references to save delay, T. Turner, 292 High Road, Chiswick, W.

LONDON, S.E.—Wanted, smart, qualified Assistant, to push middle-class business; comfortable home, salary and commission; opportunity to learn photographic branch. Letters only, to Frank, 41 Princes Square, Kennington, S.E.

LONDON, S.E.—Immediate, Manager (single-handed, except messenger), qualified, for new business; must be smart man and good prescriber: Thursday evenings and Sundays free; salary £2 and bonus. "Delta" (227/30), Office of this Paper.

LONDON, N.—Wanted (qualified preferred), gentlemanly Assistant; indoors; competent, and capable of taking charge in absence of principal; good salary to suitable man; comfortable home. A. G. Felthouse, 30 Highbury Park, N.

LONDON, W.—Early in August, Junior Assistant; qualified preferred. Apply, Roberts & Co., 76 New Bond Street, W.

LONDON, N.—Qualified Assistant required immediately; owing to death of late proprietor, the Business, including several well-known and good paying Proprietaries, would be disposed of to a suitable man on very easy terms; a good business has been and may be done. Address, "Pharmacy," 94 Richmond Road, Barnsbury.

LONDON, S.W.—Wanted, smart energetic Junior, for Light Retail and Dispensing business; indoors. Address, with full particulars, Pretty, Pharmaceutical Chemist and Dentist, 235 North End Road, S.W.

LONGTON.—Wanted, at once, a married man with small family, to work up a small branch; must have highest references; please state salary required, and experience, &c., in first letter; house rent and rates free. Wain Bros., Anchor Road, Longton, Staffs.

LOWESTOFT.—Immediately, for about 3 months, Assistant, for good-class Retail and Dispensing business; one with knowledge of Photography preferred. Fryer & Co., Chemists, Lowestoft.

LUTTERWORTH.—Junior or Improver wanted, for good Mixed Country business; hours short; half-holiday Friday. Apply, with particulars, Arthur Buswell, High Street, Lutterworth.

MANCHESTER.—Senior Assistant (indoors), about 28, required for high-class Retail and Dispensing business. Address, stating age, height, references, salary, &c., and enclosing photo (which will be returned), to T. Woodruff, Ph.C., Withington.

MANOR PARK.—Assistant wanted, for 2 or 3 weeks, from Monday next; knowledge of Dispensing not necessary; very easy hours, no Sunday duty. Salary and usual particulars (personal interview preferred), Faulkner, Chemist, Manor Park, Essex.

MEDITERRANEAN. — Assistant; qualification not essential; energetic; accustomed to first-class Dispensing. Address, "Mediterranean," Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

MERTHYR TYDFIL.—At once, Junior or Improver; one accustomed to the Photographic trade preferred. Apply, stating age, height, and salary required, to Rees Thomas & Son, Merthyr Tydfil, Glam.

NEWQUAY (Cornwall). — Summer engagement for 2 or 3 months, for a good and reliable man. References and terms to Vivian Williams, Old Town Street, Plymouth.

NOTTINGHAM.—Wanted, qualified man to manage Branch; must have good all-round knowledge of country business, including Photography, Tooth-extracting, &c., and be good salesman; total abstainer preferred. Fred Coates, Nottingham.

PARIS.—Wanted, for a first-class Retail Chemist's establishment, where 5 are kept, an experienced salesman; one speaking French fluently, and having lived abroad preferred; outdoors. Send references, with age, height, and photo, to X. Y. Z., 17 Bureau 45, Paris.

RAMSGATE.—For about six weeks; Junior or Improver; indoors. Please give usual particulars, and state salary required. Skitt, Chemist, Ramsgate.

SIDMOUTH.—Wanted, at once, smart Junior or Improver; outdoors; one used to Store trade preferred; hours easy. J. Hinton Lake, Pharmaceutical Chemist.

SOUTH AFRICA (Healthy Town).—Assistant required, for early part of March; must be thoroughly reliable, competent, and preference given to one with Wholesale experience; steady and sober habits are most essential; aged about 23; single, and of good health; Minor qualification; salary, £12 10s. per month first year, £13 10s. second year, £15 third year, payable monthly; without board, and outdoors; second-class passage paid out, with personal expenses on board; 3 years' agreement. Address, "South Africa," Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

SOUTH AFRICA.—Qualified Assistant, about 23 years of age, wanted for the Cape Colony; passage paid out; salary progressive, commencing at £14 per month. Apply, "Cape" (130/26), Office of this Paper.

SOUTHAMPTON.—Wanted, the first week in August, a qualified Assistant, for good-class business; also a Junior. Enclose carte (to be returned). J. Johns & Son, Chemists, Southampton.

SOUTH COAST.—Assistant for Light Retail and Dispensing Business; must be good Dispenser; age about 24. Apply, with full particulars as to experience, and photo, to M. A. I., c/o Messrs. Barron, Harveys & Co., Gilspur Street, E.C.

ST. ANNE'S-ON-THE-SEA.—Qualified indoor Assistant, about 22, of gentlemanly appearance and address, for first-class Dispensing business. Apply, stating age, height, references, salary, and particularly enclosing photo, J. H. Taylor, St. Anne's-on-the-Sea.

STROOD.—Good Junior for Retail; Photography, Sight-testing, and own Mineral Waters; splendid experience and liberal treatment. W. E. Clarke, Pharmacist, Strood.

SWANSEA.—Wanted, a gentlemanly, experienced, qualified Assistant, as Senior, where 3 are kept who live on the business premises; housekeeper kept. Apply, with full particulars, to N. M. Grose, Pharmacist, 8 Temple Street, Swansea.

WEST-END.—Outdoors, qualified man for Front Counter; good appearance and address essential. C., 460 Oxford Street, W.

WESTON-SUPER-MARE.—Wanted, a Junior or Improver; indoors; two kept; accustomed to good-class Retail and Dispensing business. State age, height, reference, salary, and enclose photo, to Edwin Norman, Pharmacist, 35 High Street, Weston-super-Mare.

WINDSOR.—Junior Assistant (outdoors), aged about 23, for high-class business; must be of good address. Send full particulars as to experience, salary, &c., to R. Wood, Pharmaceutical Chemist, Windsor.

A COUNTERMAN and a Dispenser wanted, at once; good wages to good men. Apply, with full particulars, to Parke's Drug Stores (Limited), 173 High Street, Camden Town, N.W.

BRANCH Manager; qualified; must be good salesman, and with knowledge of Photography. Apply, giving age, height, previous experience, salary required, and copies of testimonials, Adam, Chemist, Five Ways, Birmingham. Applications not giving particulars asked for will not be answered.

COMPETENT Assistant, about 26, required for Counter and a little Dispensing, in good-class Store business; outdoors; easy hours, half-holiday weekly; must be thoroughly capable man, with unquestionable references; one seeking permanency preferred. Apply, "Manager," 3 Park Street, Walsall.

COMPETENT Assistant required immediately; experienced Countermau preferable; progressive salary; weekly holiday. Apply, "Saccharin" (130/60), Office of this Paper.

DISPENSER.—Harrod's (Limited), Brompton Road, S.W., require the services of a qualified Dispenser; salary commencing at £2 per week, with dinner and tea hours; 8 to 7, Saturdays 2; no Sunday or Bank Holiday duty. Personal application preferred to the Chemist, at above address.

FASHIONABLE Seaside Resort near London.—Wanted, August 10, qualified Senior Assistant; unmarried; about 35 years of age; must be an excellent Counterman, and have been accustomed to take the lead in a high-class London Pharmacy conducted on thorough business principles. Advertisers require an energetic, business-like, reliable Pharmacist, to whom they could with confidence frequently leave the control of a high-class Dispensing business; fullest particulars must be given in first instance, and photo sent (to be returned); applicants will be required to sleep on the premises, but board out; the appointment offers excellent prospects to a smart, well-trained man, with liberal salary at commencement. "Phenazone" (226/9), Office of this Paper.

IN August.—Wanted, a steady Junior, about 20 (indoors), for good-class Country business; short hours; must be careful Dispenser. Full particulars to "Sherwood," c/o Barron, Harveys & Co.

LOCUM in Country Chemist's and Stationery business, until disposed of. Apply, M., 34 Paragon, Bath.

LOCUM wanted, July 23, for about ten days, to take charge of small Branch; suit experienced Junior or a Lady. Apply, stating terms (indoors), with copies of references, to "Chemist," 51 Easton Street, High Wycombe.

PART-TIME vacancy open for one who has attended classes, or wishes to do so; time for study 3½ hours daily and 2 evenings a week; in a good healthy neighbourhood, with easy access to City and West-end; comfortable home; small salary. J. Hessell, 143 Highgate Road, Kentish Town, N.W.

TAYLORS' DRUG CO. (LIM.), 26 and 27 High Holborn, London, W.C., have a vacancy for an Assistant in their Photographic Department. Apply to the Manager.

UNQUALIFIED Assistant; outdoors; mixed Country business. State salary, G. Myers & Co., Welton, Brough, E. Yorkshire.

VACANCY for first-class Dispenser in West-end Branch. Apply, Lewis & Burrows (Limited), 22 Great Portland Street, W.

WANTED, early in September, Junior Assistant; outdoors; abstainer; 40 miles from London. A. B., c/o Messrs. W. Edwards & Son, 157 Queen Victoria Street, E.C.

WANTED, Assistant (good Junior not objected to); unqualified; indoors; hours 8 to 8, Saturdays 9.30, no Sunday duty; weekly half-holiday. State all particulars, with photo, to G. L. Douthwaite, Newport, Shropshire.

WANTED, at once, an unqualified Assistant, about 30, outdoors, for a quick cash business; working-class neighbourhood; must be a good and obliging counterman and able to Prescribe; half-holiday weekly; Sunday morning duty only; wages 35s.; permanent situation to a suitable man. Apply, stating height, age, and last two references, to "Drug Stores" (226/1), Office of this Paper.

WANTED, gentlemanly Assistant (qualified), for good-class business; weekly holiday; permanent berth for suitable man. Usual particulars to "Ether" (130/59), Office of this Paper.

SITUATIONS OPEN—*cont.*

WHOLESALE.

LONDON, W.—Indoors Assistant, for Wholesale.—John Bell & Co., 225 Oxford Street, W.

AN energetic and gentlemanly Traveller wanted, having a good connection with Chemists, to Sell on Commission a very saleable line of high-class goods, now being extensively advertised; liberal terms; all applications treated with the strictest confidence. Write, M. O., c/o T. B. Browne's Advertising Offices, 163 Queen Victoria Street, E.C.

CLERK, about 21, wanted in office of Wholesale Druggists; must have previous experience of the trade. Apply, with full particulars and salary required, to 130/10, Office of this Paper.

DRUG and Patent Medicine trade.—Wanted, smart young man, as Foreman of Department; must be good disciplinarian, and accustomed to control packing of proprietary articles; some knowledge of Drug trade desirable. 130/46, Office of this Paper.

WANTED.—A competent Pharmacist, with some capacity for Management, is required in a Wholesale house; Major qualification essential; only those who have had first-class experience, preferably Wholesale and Retail, and who are capable business men, need apply; very full particulars must be given in the first application. Apply, "Major," c/o T. Dixon's Advertisement Offices, 195 Oxford Street, W.

WHOLESALE.—Tablet-maker and Sugar-coater wanted by a provincial firm of Manufacturing Chemists, 50 miles from London; preference given to an applicant who has become expert in the process of Sugar-coating; a thoroughly experienced man would receive a very liberal salary, and would be given the entire control of the department as soon as he had proved satisfactorily his capabilities. Apply, "Chemicus" (226/9), Office of this Paper.

WHOLESALE DRUG TRADE.—Wanted, a smart Ledger Clerk; must be quick at figures. Apply, by writing only, to "Colocynth" (129/16), Office of this Paper.

SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 6 words beyond.

RETAIL.

UNQUALIFIED; 26; Mixed Country. Foster, Derby Road, Belper.

IN or near London; 28; married; unqualified. Smith, 3 High Street, Woking.

MANAGER (qualified), for a Mixed business; hours easy. "Radix," Mexborough.

LOCUM: disengaged; aged 27; qualified. "Reliable," 295B Edgware Road, London.

DISENGAGED; Mixed business; aged 34; good references. F., 387A Limefield, Bury.

ASSISTANT; 25; 5 ft. 10 in.; good all-round experience. S. Smith, Post Office, Truro.

PART-TIME; 13 years' experience. Rogers, 6 Gainsborough Grove, Newcastle-on-Tyne.

QUALIFIED; 22½. Salary and particulars, to "Rumex" (223/16), Office of this Paper.

AS Dispenser: aged 24; good experience. "Pharmacy" (226/27), Office of this Paper.

JUNIOR; 19; 6 ft.; disengaged; good-class experience. Llewelyn, Connor Park, Alfreton.

LOCUM or Assistant; unqualified; 24; London. "Statim," 6 Methley Street, Kennington, S.E.

QUALIFIED; 25; good experience. Address, G. F., 35 Milton Street, West Hartlepool.

LOCUM; Hospital or Surgeon's; Hall qualification. "Femur," 17 Gordon Place, Kensington.

CHEMISTS requiring first-class qualified Locum immediately, apply 226/23, Office of this Paper.

WANTED, situation as Dispenser to a Surgeon; country preferred. Powne, Amesbury, Wilts.

LOCUM; 24; unqualified; experienced; disengaged July 23. 40 South Place, Kennington, S.E.

SUSSEX.—Junior, in good-class Dispensing business; 22. Boxall, 154 Marine Parade, Brighton.

LOCUM; qualified; Chemist, Surgeon, or Institution; terms moderate. M., 40 Manchester Street, W.C.

UNQUALIFIED; Manager or Senior; 43; excellent references. M. C., 16 Waveney Avenue, Peckham.

LADY Dispenser, qualified, desires engagement. E., 29 Blenheim Crescent, Notting Hill, London.

ASSISTANT; Apothecaries'; 5 ft. 7½ in.; 27; good references. "Nemo," South Ormesby, Alford.

LOCUM; qualified; abstainer; disengaged July 23. Boden, Co-operative Drug Co., Newquay, Cornwall.

IMPROVER; apprenticeship completed with a firm of Surgeons. "Statim," Aller House, Haverfordwest.

ASSISTANT; 23; unqualified; 5 ft. 8 in.; London preferred. Carter, 20 Franklin Street, Sunderland.

MANAGER, Senior or Locum; 28; disengaged; highest references. "Qualified," 8 Crescent Road, Margate.

LOCUM; experienced; tall; undeniable references. "Photography," 40 St. Agnes Place, Kennington Park, S.E.

LOCUM; 27; qualified; experienced; disengaged; references. "Photographic," 102 Ripple Road, Barking.

JUNIOR; 21; Photographic, Extractor; outdoors; Liverpool district. "Chemist," 22 Hardwick Street, Liverpool.

LADY Dispenser; Locum; 3 years' experience, Surgeon, Institution, Chemist. "Spes," 1 Chandos Street, Leicester.

MANAGER or Locum, qualified, in a Light Country business; middle-aged. B. J. C., 112 High Street, Fulham, S.W.

QUALIFIED; 26; tall; first-class English and Continental experience; disengaged. Robinson, Lynwood, Boscombe.

A JUNIOR or Improver; 4 years' experience; opportunity for study; small progressive salary. Hamiltons, Bangor, Wales.

TO manage small branch or otherwise; varied experience; aged 36; disengaged. "Alpha," 10 Chippenham Road, London.

LOCUM or Temporary Manager; qualified; experienced; Photography. Batchelor, 24 Bradstone Avenue, Folkestone.

PART-TIME, qualified (25), slightly deaf, for Dispensing or Stock; good experience. W., 45 Stuart Street, Docks, Cardiff.

QUALIFIED; good experience; successful manager; short hours preferred. "Bohs," 35 Wharton Road, West Kensington.

QUALIFIED Locum has open July 19 to August 4, and August 26 to September 15. Finnemore, Bank House, Ross-on-Wye.

UNQUALIFIED; Manager, Dispenser, or Locum; good references; experienced; London preferred. 228/30, Office of this Paper.

QUALIFIED; Locum or permanency; good Store experience; 25; tall; disengaged; outdoors. "Alpha" (226/33), Office of this Paper.

"VERB. SAP." (216/23)—*vide* last week's Supplement—still open to correspond with view to Managership. 216/23, Office of this Paper.

QUALIFIED; aged 21; 5 ft. 8½ in.; abstainer; extractor; photography; good reference; no stores. Hooton, Avon Lodge, Bridlington.

DISENGAGED; Manager Branch or Locum; middle-aged; qualified; single; good all-round experience. W., 45 Kew Road, Chatham.

QUALIFIED; 34; experienced; Locum or good permanency; disengaged; outdoors; good references. "Reliable" (225/30), Office of this Paper.

ASSISTANT; 23; good Dispenser; knowledge of Photography; Manchester district preferred; unqualified. "Erinus" (225/33), Office of this Paper.

QUALIFIED; abstainer; 25; Photography; South Coast (with Optical) preferred. "Iris," 2 Kelmore Villas, Stafford Road Bournemouth.

MANAGER; great experience; excellent references; Branch, Store, or Locum-Tenens. Webster, qualified Chemist, 6 Station Road, Prescot, Lancashire.

AS Locum Tenens; a gentleman (married), of considerable experience, wishes the management of a business. Address, Garden, 23 Albany Road, Bexhill.

OUTDOOR Assistant; 23; unqualified; Dispensing, Photography; 8 years' experience, principally Store; disengaged August. "Rhei," 215 Beverley Road, Hull.

MIDLANDS.—As Assistant, by gentleman who has been in present berth some years; Prescriber; married. "Huile de Oade," 52 Berridge Road, Nottingham.

MANAGER; qualified; Extractor; excellent testimonials; aged 38; married; own furniture; permanency. Munro, 64 Normanton Terrace, Newcastle-on-Tyne.

MANAGER; London or suburbs; married; qualified; highest references; experienced and reliable; permanency desired. "Alembroth" (226/38), Office of this Paper.

LOCUM; Manager or Assistant; disengaged; 28; outdoors; excellent references and experience; Prescriber. Williams, 34 Uxbridge Road, Shepherd's Bush Green, W.

AS Manager small business, or Dispenser where duties are light; qualified; middle-aged; varied experience; nominal salary; disengaged early in August. "Minor," 4 Cheapside, Derby.

UNQUALIFIED; 26; 5 ft. 11 in.; good address; all-round man; Photographic experience; exceptional references; Midlands preferred; free August 2. Knowles, 19 Moss Lane, W., Manchester.

GERMAN Chemist (Assistant), highly recommended, speaking English, French, and German, seeks an engagement in England, especially London, for October 15 or later. Apply to H. Heinrichs (No. 3166J), Berne, Switzerland.

QUALIFIED Chemist, married, aged 36, requires Managership or similar appointment; Hull district or Lincolnshire; suburbs or country town; varied experience, and, in addition to Dispensing and Family Retail, used to manufacture of Aërated Waters, Agricultural trade, and local Wholesale; 12 years doing good-sized business on own account; present appointment, branch manager; excellent references from present employer and others. Address, "Permanency," c/o Allison, Johnson & Foster, Blanket Row, Hull.

WHOLESALE.

AS Manager, Buyer, or Representative; Chemist (qualified) desires engagement. 220/2, Office of this Paper.

TRAVELLER, disengaged, wishes to represent good Soap and Perfume house; connection. 228/39, Office of this Paper.

ADVERTISER (28), 13 years' Retail and Surgeon's experience, is open for berth as Traveller. "Cocain" (224/13), Office of this Paper.

PHARMACEUTICAL Chemist seeks situation in Wholesale house; good experience and references; 23. "Zeta" (228/20), Office of this Paper.

GENTLEMAN (31), with 17 years' Retail experience, desires appointment as Manager or Representative; disengaged. "Veritas," 139 Church Road, Canonbury, N.

SITUATION wanted, by Advertiser, as Foreman in Chemical-works. "Cyankalium" latest patent. Please address, "A. E. 377," c/o Rudolf Mosse, Magdeburg, Germany.

CHEMIST, with several years' experience in Laboratory of first-class firm, requires re-engagement in a responsible position; excellent references. 224/23, Office of this Paper.

TRAVELLER, with excellent sound connection, West Riding, North Lancs, and Midlands, Drugs and Sundries, highest references, wishes change. 225/2, Office of this Paper.

TRAVELLER, experienced, with large Surgeons' connection, desires to treat with a first-class Drug-house, with a view to mutual arrangements. 224/16, Office of this Paper.

YOUNG man (23), married, seeks re-engagement: 5 years' Wet Counter experience; would take any position in Wholesale house. Address, "Phenazone," 15 Sturton Place, Horncastle, Lincs.

PHARMACEUTICAL Chemist (24) desires engagement with a firm of Wholesale Manufacturing Chemists; excellent references; first-class Retail experience; London preferred. "Salophen," 3 Bedford Place, W.C.

ADVERTISER (25), married, 10 years' high-class Retail experience, is open for berth as Traveller; Manchester or Birmingham and district preferred; well known among chemists. "Commercial" (130/64), Office of this Paper.

PIONEER Traveller, who has successfully introduced and created a demand for many new Proprietary articles, is now open for an engagement; highest trade references. Letters to "Proprietary," 16 Castle Street, Birmingham.

ADVERTISER wishes position in Wholesale house; 10 years' Retail experience; position of trust courted; is thoroughly capable of organising and administering. Apply, "Radix," 10 St. Andrew's Chambers, Wells Street, Oxford Street.

GENTLEMAN, representing London Drug house over a large area, would like to represent another house (in any branch not clashing); part expenses and salary; good opportunity for introducing Specialities. Taylor, 13 Barratt Street, Southport.

COMMERCIAL Manager.—Gentleman with experience, energy, and a very successful record, is open to take complete control of commercial part of an important manufacturing firm or company; good organiser, advertiser, and accountant; unexceptionable references. Address, "Excel," c/o May's Advertising Agency, 21 St. Bride Street, E.C.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

DAISY (LIMITED), Leeds, will be happy to advertise (at reasonable rates) in Chemists' Lists, &c., &c.

ARTISTIC shop fittings.—Two complete chemists' shops for sale; both are erected and on view in our shop-fitting showrooms. Ayrton & Saunders, 34 Hanover Street, Liverpool.

INCREASING SALE.—Quinine Pessaries; guaranteed to contain full quantity of hydrochloride, basis pure cocoa butter only; absolutely reliable; 7*s.* 6*d.* per doz. boxes (1 doz. in each, partitioned): cash must accompany order; postage extra. The Theobroma Co., Oxford Mansions, New Oxford Street, W.C.

NERVE-KILLER.—To be applied to the cavity of the aching tooth on cotton wool. Painless. Harmless. In bottles, price 3*s.* per doz., carded. A very saleable and reliable line. Purchasers invariably recommend it to others. 3-dozen lots, boxed, with customer's own name and address, at 3*s.* 6*d.* per doz. Sole agents appointed. Samples free. Evans Bros., 112 North End, Croydon.

SULPHUR-TABLETS and Sulphur and Sarsaparilla Tablets, in 7-lb. hinged and labelled boxes; 2 cwt. 33*s.* cwt., carriage paid; 1 cwt. 34*s.*, ½ cwt. 18*s.*, 28 lbs. 10*s.*, carriage forward, prices and show-cards free; Sticky Fly-papers, your own name, 5*s.* gross, 5-gross lots carriage paid; Disinfecting Shells, 4*s.* 3*d.* gross, 5-gross lots £1. Christy & Co. (late White), Chemist, Leicester.

"BIG WHEEL" LEMONADE CRYSTALS & POWDER. Delicious Fruit flavours. Retail profits protected. Crystals, in ornamental airtight and lined 2-oz. tins or bottles, 42*s.* per gross, less discounts; carriage paid everywhere. 6*d.* size Powders, 11-oz. package, 57*s.* per gross, less discounts, carriage paid. "Big Wheel" Health Salt, 4-oz. ornamental tins, 36*s.* per gross. H. W. Carter & Co. (Limited), Old Refinery, Bristol.

WANTED, to give to a Capitalist or Chemist the right to place on the market a Doctor's new discovery—an infallible cure for asthma, hay fever, bronchitis, influenza, all spasmodic and respiratory, pulmonary and bronchial diseases, however chronic, acute, or even hereditary. Prepared to prove its exceptional merits by curing free of charge any such severe cases. Full particulars to be obtained from Benham & Co. (Limited), 8 Southampton Street, Holborn, W.C.

CAPSULES.—Stocktaking.—Several cheap lines in job Capsules without makers name, most of them are offered at less than half-price; in writing for samples state kinds required, and if in round tin boxes or cardboard boxes, and how many in a box; some of the lots are suitable for export; the kinds offered are Copaibæ, 3 sizes; Cubebs and Copaibæ; Cubeb, Copaibæ, and Santal Oil; Castor Oil; Cubeb and Iron; Tar; Cascara: 5, 10, and 15 mins. Samples and prices on application, Thos. Durant & Son, King Square, Bristol.

J. COWPER, the artistic shopfitter, is offering some special bargains this week in dispensing-screens, counters, desks and cases, and our own "spécialité" bent counter cases with and without tooth-brush centres; different designs at different prices to suit all buyers. Chemists requiring high-class fittings at cut prices will do well to write for prices and particulars, to 28 Cleveland Square, Liverpool.

JOB LINE Plate-glass Shelves and Window-fittings.—Bevelled plate-glass mirrors, black-beaded frames; 4 63×18, 20*s.* each; 3 21×15, 5*s.* 8*d.* each; desk and case, 60*s.*; 10-ft. counter, 60*s.*; 6-ft. dispensing-screen, 120*s.*; 12-ft. wall-fitting plate-glass mirror poison cupboard, shelves, drug-drawers, lockers, &c., 330*s.*; counter-drawers, 3-ft. plate-glass shelves, complete on standard for window, 70*s.* Treble & Co., Complete Shop Fitters, Rectory Works, Rendlesham Road, Clapton, London, N.E.

CHEMISTS' shop fittings.—12-feet run of mahogany-fronted drawers, with bevelled-edge glass labels, shelving cornice and lockers complete; 12 feet mahogany and plate-glass serving counter; 6-feet dispensing screen with mirror centre and counter, with sponge case under; 8-feet mahogany and glass wall case; desk and perfume case; 5-feet bent plate-glass counter case; £55 the lot; all in perfect condition. Philip Josephs & Son, 54 Old Street, London, E.C.

CHEMISTS' Fittings.—High-class Fittings at Low Prices.—14-ft. Chemist side fitting, fitted 70 mahogany-fronted drawers, bevelled glass labels, cut-glass knobs, lockers, shelves, cornice, &c., complete £15 10*s.*; mahogany-top serving counter, plate-glass front, 10 ft. 6 in. long, £9 5*s.* bent plate-glass counter-case, 5 ft. long, 80*s.* Cheap house for window enclosures, alterations, wall-cases, glass facias, and stall plates. Chemists fitted complete. Estimates free. Mills, Shop-fitter, Shop-front Builder, Steam Works, 163-165 Old Street, London, E.C. (late 203 City Road).

CHEMISTS' Shop-fixtures.—Ranges mahogany drawers, with bevelled-edge glass labels and cut-glass knobs, shelving above, lockers below; mahogany dispensing-screens; counters with glass-case fronts; wall-cases; bent-front and flat-top counter-cases; counter-desks; tooth-brush cases; complete shop-rounds, &c.; every requisite for Chemists, new and second-hand; extensive stock to select from, at extremely low prices; practical men sent to all parts; estimates free. Matthews, Chemists' Fitter, 14 and 16 Manchester Street, Liverpool; Works: 9 Preston Street. Telephone 6695. Illustrated Catalogue on application.

CUCUMBER AND GLYCERINE.

ROUSE'S Cucumber Paste is the best for preparing Cucumber Emulsion. Formulæ and labels free with each jar; ½ lb. (for 3 lbs. emulsion), 2*s.* 3*d.*; 1 lb., 4*s.* 3*d.*; 7 lbs., 25*s.*, post free. Rouse, 61 Charlotte Street, London, W.

N.B.—Cucumbers actually enter into the composition of this article.

EXCHANGE COLUMN-BARGAINS

TERMS.

DEPOSIT.—The purchaser of anything advertised in the Exchange Column may remit the amount to us, and we only pay the money deposited on advice from the remitter. We charge a commission of 6*d.* on any transaction of £3 or less, or 1*s.* if above that amount, which is payable by the purchaser.

Limited to the Advertisements of Surplus Stock, Shop Fittings, Apparatus, Photographic Goods, Books and Periodicals, Formulæ, Addresses Wanted, and Articles Wanted.

½d. *per word with name and address.* **1d.** *per word if we register the address and attach a number.*

No Advertisement inserted for less than 6d.

Remittances payable to EDWARD HALSE and crossed MARTIN'S BANK, LIMITED.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

"**Pharmaceutical Journal,**" well bound, complete, years 1859 to 1896. Offers to ROBERTSON, Chemist, Elgin.

What offers? *The Chemical Trade Journal*, from January, 1897, to June, 1900, 7 vols., unbound. 223/11, Office of this Paper.

"**Pharmaceutical Journal,**" vols. i. to vii. and xii. to xviii., half-bound, in good condition, for sale; cash offers. P. PARKER, Lowroyd Cottage, Apperley Bridge, Yorks.

What offers? Quain's "Dictionary of Medicine," in 8 sections, cost £2; also Potter's "Materia Medica, Pharmacy and Therapeutics," in 5 parts, cost 25*s.*; both new and unsoiled. POTTS, 41 Chatsworth Street, Sunderland.

DRUGS AND CHEMICALS.

Offers; overstock.—1 lb. best salicin; olive-oil, good, 1-gal. tins; good creasol disinfectant, 1-gal. tins; Lever's best glycerin, 1-gal. tins; ol. amygdalæ persic., 1-gal. tins; samples if required. APLIN, Yeovil.

FORMULÆ.

Analytical chemist, silver medallist, offers the whole of his formulæ (medicinal, household, toilet, cattle and poultry foods, veterinary), the result of 25 years' practice, for a nominal sum, to enable traders to successfully compete with any proprietary article usually sold at cost; full list and particulars upon receipt of stamped addressed envelope; don't miss this opportunity for trouble of sending address; this advertisement may not appear again. Address, Pen-y-Bryn, Sedgley, near Dudley.

OPTICAL AND PHOTOGRAPHIC.

25s. Vive camera, takes plates or films, 4¼ by 4¼ or quaater-plates, 3 stops, &c., good condition, 15*s.* BRAY, 64 Wadbrough Road, Sheffield.

PROPRIETARY ARTICLES.

72 Barnett's Khaki bouquet; what offers? 227/35, Office of this Paper.

One Atkinson's bear's-grease, 1*s.* 9*d.*; 4 Barrow-Evans's hair-restorer, 1*s.*; 6 Baxter's rheumatic-oils, 1*s.* 1½*d.*; 3 Bishop's mag. cit., 1*s.*; 1 1-oz. Boudatt's pepsine, 5*s.*; 2 Baxter's lung-preserver, 2*s.* 9*d.*; 1 Carpenter's veg. specific, 1*s.* 1½*d.*; 1 Churchill's syr. hypophos., 3*s.* 6*d.*; 12 Chapman's cattle-oils, 2*s.* 6*d.*; 6 ditto, 5*s.*; 2 Dussart's syrup, 2*s.* 9*d.*; 2 Du Moiry's malto-phosph. food; 1 Fearn's family pills, 1*s.* 1½*d.*; 8 Ford's balsam, 1*s.* 9*d.*; 6 Field's anti-bile remedie, 1*s.* 6*d.*; 1 Lignum oint., 1*s.* 9*d.*; 5 Laritz fir-wool oil, 1*s.* 1½*d.*; 3 Liebig's chem. food, 2*s.* 9*d.*; 3 Mitre lozenges, 1*s.* 1½*d*; 4 Hypnodyne, 1*s.* 1½*d.*; 1 Pepper's tarax. and podoph., 4*s.* 6*d.*; 1 S. & M. pancreat. emuls., 2*s.* 3*d.*; 1 Symes's pepsine mist., 4*s.* 6*d.*; 1 Rowland's Kalydor, 4*s.* 6*d.*; 1 Swift's S.S.S., 4*s.* 6*d.*; 1 Tic Sano, 1*s.* 1½*d.*; 5 Van Lichen's throat-loz., 1*s.* 1½*d.*; patents, half face-value, all or part, f.o.r.; offers for 1*s.* Aspinall's enamel, assorted; 6*d.* and 1*s.* bronze; caper bot., 6*d.*; Servant's Friend black-lead, 2-oz.; 3 cwt. gum at 3*d.* per lb. f.o.r.; quantity tins for harness-blacking. H. G. FLETCHER, "Toko" Warehouse, Eckington, Derbyshire.

SHARES.

20 Camwal preference; what offers? 226/6, Office of this Paper.

250 Seigel ordinary, 7*s.* 6*d.*; will sell part. 226/19, Office of this Paper.

SHOP FITTINGS.

Handsome and substantial mahogany dispensing-counter, length 8 ft. height 6 ft. 6 in., depth 2 ft. 9 in.; front has 4 plate-glass side-cases with mirror-backs and glass shelves, and central plate-glass mirror, 5 ft. by 3 ft. 6 in.; all in first-class condition, with 2 embossed tablets, "Dispensing Department"; what offers? will accept £10, carriage forward. J. H. BIBBINGS, Pharmacist, Newton Abbot.

MISCELLANEOUS.

Boiled linseed-oil, 3 cwt. 1 qr. 25 lbs. net weight, at 36*s.* per cwt.; cask free, carriage forward. BURLEY, Ousegate, Selby.

For sale, Southall's materia-medica cabinet (collection D), in good condition. Apply, with offer, to MALLINSON, Chemist, 307 Oxford Street, Manchester.

15 doz. black seamless enemas, polished, boxed complete, 17*s.* doz.; 9 lbs. black feeder-tubing, 6*s.* 9*d.* lb., carriage paid, perfect condition. Cheque to C. MEACHEN, Cheshunt Cottage, Westcliff-on-Sea.

2 lbs. potass. iodid., 18*s.* 6*d.*; 2 oz. morph. hydroch., 10*s.*; 2 lbs. bism. subcarb., 10*s.*; 2 lbs. ditto nitrat., 10*s.*; 12 2*s.* 9*d.* Rooke's pills, 18*s.*; 36 Tetlow's gossamer-powder, assorted, 10*s.* 6*d.* EASTMAN, Forest Lane, Stratford.

Complete set of dental-instruments, including 36 forceps, 3 keys, 3 lances, £5 the set, or 3*s.* 6*d.* each; also 10 1-lb. gold-bronze powder, in 1-oz., 7*s.* per lb., or £3 the lot; carriage paid. R. E. HEAP, Chemist, 4 Brunswick Street, Hanley.

Overstock; offers.—1 gross Ivory soap; Violette de Parme tooth-powder tins (handsome and saleable); large 3*d.* tins of insect-powder; handsome cards of handy oourt-plaster, dental-enamel, and 1*d.* corn-plaster, 3 doz. on card, very saleable. APLIN, Yeovil.

One Carlsberg yeast-cultivation "Jensen system" copper cylinder, 5 litres capacity, never used, price 18*s.*, without packing; 1 Pasteur flask, ¾-litre, 2*s.* 6*d.*; 10 1½-gal. cylindrical copper store-vessels, with brass taps, never used, 4*s.* 9*d.* each, net; 50 4½-gal. square copper canisters, once used for lime oil, average weight 6¼ lbs., at 3*s.* 6*d.* each. CLAYTON & JOWETT (LIM.), Liverpool.

WANTED.

Good rapid sifter and mixer. C. ROEBUCK, Shelley, Yorkshire.

Camwal ordinary, 21*s.*; small lots under 10, 20*s.*; transfer free. 226/18, Office of this Paper.

Old electric lamps and scrap platinum. P. ROWSELL, 9 Derwent Grove, East Dulwich, London.

Formula for sarsaparilla-wine, sold by herbalists; also 2 window-stands for showing 8-oz. bottles. "CHEMIST," 52 York Road, Battersea.

Newth's "Inorganic Chemistry"; Lowson's "Botany"; Greenish's "Materia Medica." State prices, PARKER, 40 Market Street, Hoylake.

B.P., 1898; Southall's "Materia Medica"; "Selecta è Prescriptis"; Ramsay's "Elementary Systematic Chemistry"; latest editions. H. SMITH, 257 Park Road, Aston, Birmingham.

Printed by SPOTTISWOODE & Co., New-street Square; and Published at the Office, 42 Cannon Street, in the City of London.—*July* 14, 1900.

THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy and the Drug-trade.
ESTABLISHED 1859.

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OUR SUMMER NUMBER.

WE would remind our subscribers that the time for getting insets ready for our Summer Number, to be published on July 28, is now somewhat short, and would strongly advise those who think of having an inset in the number to communicate with the Publisher at once. The issue will be one of exceptional interest, for it will contain, besides many other attractive features, our report of the meeting of the British Pharmaceutical Conference to be held in London that week. It will have an extended circulation at home and abroad, will be produced in the best possible style, and altogether will provide advertisers with an exceptional opportunity for increasing business. Full particulars regarding the issue may be obtained on application to the publisher of THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.

Summary.

WE QUOTE some facts regarding the Condy cases in Australia on p. 47.

THE SALE OF INDIAN HEMP in the Orange River Colony has been prohibited (p. 47).

A KOBE CORRESPONDENT makes some revelations regarding the iodine-ring (p. 72).

THE PATA BIRD, whose daring flights are a terror to the older birds, appears on p. 54.

THE NEW GERMAN PHARMACOPŒIA will come into force on January 1, 1901 (p. 58).

ADVICE TO ASSISTANTS who think of going out to South Africa will be found on p. 47.

THE QUESTIONS set at the Jacob Bell Scholarships examination, held on Tuesday, are printed on p. 49.

MR. JOHN BORLAND, of Kilmarnock, a former pharmaceutical examiner and councillor, died on Tuesday (p. 68).

PROFESSOR OTTO PETTERSON delivered a Nilson Memorial Lecture to the Chemical Society last week (p. 58).

FURTHER REVELATIONS in regard to the slowness of photographic dealers are given by correspondents (p. 71).

THE COMPANIES BILL is slowly progressing through Committee, and steps have been taken to expedite it (p. 48).

THE NAMES of those who have passed the Minor and Major examinations in Edinburgh this week are given on p. 50.

THE MANCHESTER CORONER thinks it is illegal for a chemist to carry on business at other than his register-address (p. 44).

ANOTHER LADY who has passed the Minor tells what she thinks of the examination and examiners—in Edinburgh this time (p. 53).

THE SPANISH QUICKSILVER-CONTRACT has again been taken by Messrs. Rothschild. More of the metal should now come forward (p. 74).

THE need for co-operation between Great Britain and Ireland in regard to company-pharmacy is again urged by a correspondent (p. 71).

THE MANX PHARMACY BILL has been sanctioned by the Queen, and the terms of the agreement are printed in English and Manx on p. 42.

THE LATEST PARTICULARS of the Pharmacy Congress to be held in Paris on August 2, and of other international Congresses, are given on p. 46.

THE SACCHARIN CORPORATION have failed in their action against Messrs. Reitmeyer & Co. in regard to sales of saccharin made in 1898 (p. 60).

MESSRS. HOVENDEN & SONS are appealing against the Lower Court decision in the bribery action which they brought against a firm some time ago (p. 60).

THE ADVANCE IN MENTHOL is somewhat mysterious in origin, but we have ascertained the facts in regard to it, which are embodied in an article on p. 58.

DR. TICHBORNE has examined Dublin phosphate of soda, and finds that it contains arsenic. He says the B.P. must change the process for making the phosphate (p. 59).

LAST WEEK'S MEETING of the Irish Pharmaceutical Council was quite formal. We report it, and the names of those who passed the Preliminary examination (p. 48).

THE LAST PRELIMINARY EXAMINATION of the Pharmaceutical Society of Great Britain was held on Tuesday, and the questions are printed on p. 49. We also comment upon the subject on p. 57.

TWO CASES under the Sale of Food and Drugs Act in respect to the sale of effervescing sodium phosphate containing arsenic are reported at considerable length. The Magistrate imposed a fine of 10*l.* and 5*l.* 5*s.* costs in each case (p. 61).

THE BRITISH PHARMACEUTICAL CONFERENCE has had the promise of twenty-three papers for the meeting to be held in London on July 24. The titles are given on p. 51, where also we give particulars regarding the local arrangements.

TRADE has been pretty good this week. There has been much better movement in the speculative quinine-market, the price having gone up a little. Menthol is still firmer; opium is dearer in consequence of a demand for China; ergot is firmer, and there is a movement in buchu (p. 73).

English News.

Local newspapers containing marked items of news interesting to the trade are always welcomed by the Editor.

Brevities.

Mr. Francis Sutton has been appointed county analyst for Norfolk for the ensuing year.

At Garstang on July 5 John Cubbin, of Presall, was fined 5*l.*, including costs, for pretending to be a doctor.

On July 7 Mr. Wm. Wade Yeomans, a Manchester chemist, was badly injured in a bicycle accident near Middlewich.

The chemists of Huddersfield and district after July 18 will close their places of business on Wednesdays at 1 P.M.

Sarah Shaw (25), of Widnes, sent her brother on July 6 to Foggett's Drug-stores for threepennyworth of precipitate powder, which she took and died.

At a meeting of the Chepstow Guardians the Master was given permission to convert the Clerk's old strong-room at the workhouse into a drug-store.

Herman Fuchs, a young German, has been sent to prison for six months with hard labour for stealing a portmanteau belonging to a Rochdale manufacturing chemist.

Manganate of soda, eucalyptus, and Jeyes' fluid are the disinfectants used by the Dartford Guardians. Owing to a complaint as to the cost the Board has resolved to invite tenders in future.

At a meeting of the Somerset County Council last week, the analyst reported that he had examined 200 samples of food and drugs and found only seven adulterated, but in no way prejudicial to health.

A tramp named George Dwyer has been sentenced to fourteen days' imprisonment with hard labour for stealing a 1*s.* tin of Ridge's food, the property of Mr. William Blackwell Smith, chemist, Gosport.

Arrangements have been completed by the chemists of South Devon for an early outing to Berry Pomeroy Castle and neighbourhood. The trip will be wound up by a dinner at the picturesque and ancient town of Totnes.

An assistant in the Kent Drug-stores, Sevenoaks, was dispensing horse-embrocation containing turpentine on July 6, when the bottle burst, and the assistant and customer were both badly cut by fragments of glass, while the showcases and some of the stock were damaged. Our reporter states that there had been an evolution of chlorine in the bottle.

London Chamber of Commerce and the Poisons Trade.

A meeting of the Chemical Section of the London Chamber of Commerce was held at Botolph House, E.C., on Tuesday, July 11. Among those present were Messrs. Thos. Tyrer (Chairman), Lescher, Winkfield, Domeier, G. B. Francis, Millard, Boake, T. Christy, G. T. Skillick, Thos. Bennett, and Kenric B. Murray (Secretary).

Mr. Tyrer said the chief object of the meeting was to consider an application which had been received by the Secretary from "The Traders in Poisons and Poisonous Compounds for Technical and Trade Purposes Protection Society" asking for the support or recognition of the Chamber in their proposed attempt to obtain legislation to amend the Pharmacy Act so far as it related to the trade in poisons and poisonous preparations for technical and industrial purposes. Mr. Tyrer then read the circular issued by the Society setting out particulars of its objects, and also the proposed petition to Parliament (to which we referred in our issue of June 23, page 1037). These gave full particulars, and as they appeared to be pretty freely circulated in the trade Mr. Tyrer thought it only remained for them to decide if the interests of their Section or the Chamber were affected by the matter, and if so what was the proper course to adopt.

A short discussion followed, in which Messrs. Lescher, Boake, Christy, Bennett, Winkfield, Domeier, Skillick, Millard, Heap, and MacEwan joined. The Traders' Society's efforts received favourable support from Messrs. Domeier, Winkfield, Skillick, and Bennett, each of whom thought the conditions had quite changed since the 1868 Pharmacy Act had passed, the demand for poisons being now so much greater, and that it was necessary to relax the restrictions of the Pharmacy Act somewhat so that poisons such as weed-killer could be more readily obtained.

It was apparent that these gentlemen spoke from imperfect knowledge of the provisions of the Pharmacy Act; and Mr. Lescher and others fully explained these, also that the Pharmaceutical Society were exceedingly careful not to interfere with wholesale dealing and with poisons for technical purposes so long as the safety of the public was ensured.

Ultimately, on the motion of Mr. MacEwan, seconded by Mr. Winkfield, and supported by Mr. Bennett, it was agreed that the whole question should be reserved until the Bill referred to takes definite shape.

The Manx Pharmacy Act.

The ancient ceremony of the Promulgation of Manx Laws took place at St. John's, Isle of Man, on July 5. The Governor sat in state in the Tynwald Hall, surrounded by the officials and members of the House of Keys, while the Clerk of the Rolls read the Royal assent to the Acts passed by the Legislature during the year, and a short description of each in English and Manx. The Pharmacy Act is described as follows:—

THE PHARMACY ACT, 1900.

An Act to regulate the sale of drugs and poisons.

The object of this Act is to prevent persons other than pharmaceutical chemists, or chemists and druggists within the meaning of the Act, selling or keeping open shop for the sale or compounding of poisons or medical prescriptions, or using the name or title of "pharmaceutical chemist," "chemist and druggist," or "chemist," or "druggist," or "pharmacist," or "dispensing chemist or druggist," or any name implying the possession of a qualification to practise pharmacy in this Island.

"Poisons" are defined by the Act, and so also are the expressions "pharmaceutical chemist" and "chemist and druggist."

The Act also contains provisions regulating the method of carrying on the business of chemists and druggists by joint-stock companies, reserving the right in certain cases of legally-qualified medical practitioners and veterinary surgeons, making the Adulteration Acts, 1874 to 1895, applicable to all articles usually taken or sold as medicine, as to copies of registers and the Pharmacopœia being evidence, and as to recovery of penalties.

The Royal assent to this Act was given by her Majesty in Council, at the Court at Windsor, on the 29th day of June, 1900.

YN SLATTYS KIERD VESTEYR NUY CHEEAD YEIG 1900.

Slattys dy Goardrail creek Jeh Stooghyn Leihyas Pyshoonyn.

Aigney yn Slattys shoh te dy Lhiettal persooyn nagh vel pharmaceutical creckeyderyn stooghyn Lheihys ny creckeyderyn stooghyn Lheihys ny-creckyeyderyn jeh drnggyn cheusthie jeh toiggal y Slattys, creck ny freayl cabbane, creckeyder Foshlit, son creck ny dy vestey, jeh pyshoonyn ny oardaghyn Fir-ldee ny jannoo ymmyd, jeh ennym ny ennym lior creckyder, jeh stooghyn Lheihys ny losseyr ny fer ta creck druggyn, ny ennym erbee ta goaill, stiagh goaill soyley jeh toiggallys tushtey dy obbraghey kierd vesteyr syn Ellan shoh.

Ta "pyshoonin" as baght churrit arroo liorish y Slattys, as myr shoh myrgeddin er ny "foeklyn pharmaceutical," as "creckederyn stooghyn lheihys."

Ta'n Slattys cummal kiarailyn dy oardrail yn aght dy eurlesh er yn kierd jeh creckederyn stooghyn lheighys liorish sheshaghtyn commee; tashtey yn cairys ayns cooishyn erlheh; jeh laighoil toiggalys obbraghee as Firlhee ollee jannoo mestey hoghkeead yeig as threefeed as kiare jeig 1874 gys 1895 hoghtkeead yeig as kiare feed as qneig jeig cooie gys ny nheeghyn eliagh tagh dy ve goit ny creekit myr stoo lheihys mychione aasereeuyn ny lioryn chooinaghtyn as yn lioar Pharmacopœia janno feanish; as mychione geddyn reesht jeh keeshyn kyn.

Van kied Reeoil eurrit dan Slattys shoh Liorish E Ard Ooasbuatsnos Coonsil, ee y Quaiyl ee Windsor, er ynuyoo laa veig jeh yn Sheyoo yee nuy cheead yeig 1900.

Never before, surely, was a prosaic pharmacy law enacted amid such picturesque ceremonial.

Federation of Pharmaceutical Associations.

Mr. Jas. Cocks, Hon. Secretary of the Federation of Local Pharmaceutical Associations, informs us that the annual meeting will be held at the Hôtel Métropole, London, on July 24, at 7 P.M. Mr. John Smith (the President) will be in the chair.

A New Scholarship.

The Council of the Society of Dyers and Colourists have offered a scholarship to the value of 50*l.* a year for three years, tenable in the Chemistry and Dyeing Department of the Bradford Municipal Technical College. Particulars may be obtained from the Hon. Sec. of the Society, Mr. E. T. Holdsworth, Westholme, Great Horton, Bradford.

Photographic Convention.

The Photographic Convention of the United Kingdom are in session at Newcastle-on-Tyne this week. The Lord Mayor (Sir Riley Lord) received the members at the Assembly Rooms on July 9. The President (Mr. Thomas Bedding, editor of the *British Photographic Journal*) gave an address, in which he took a hopeful view of photographic progress. He paid a high tribute to the specimens of English photography at the Paris Exhibition, and regretted the Government were being induced to substitute for the 1862 Copyright Act a measure inequitable to photographers.

Dr. Leech's Funeral.

It had been arranged to hold the funeral service over the remains of Dr. D. J. Leech at St. Margaret's Church, Whalley Range, on July 6, but the church was found to be too small to accommodate all those who had signified their intention to be present. The service was therefore held in the Manchester Cathedral. All the various medical and public institutions with which the deceased had been connected were represented at the interment, which took place at the Southern Cemetery on Sunday morning. The Pharmaceutical Society was represented by Mr. G. T. W. Newsholme, and the Manchester Pharmaceutical Society by Mr. Herman Woolley, Mr. Harry Kemp, and Mr. J. Woodruff Walton.

Birmingham Bits.

Owing to the continued prevalence of diphtheria in King's Heath, due to defective drainage, particularly in the neighbourhood of the Board Schools, the pharmacists are having a very busy time, and the antitoxin appears to be the most favoured, both as a remedy and a prophylactic.

It is a matter of extreme regret in this age of better salaries to find a local institution advertising for a male dispenser at so small a salary as 60*l.* per annum. Whether it is part-time or whole-time is not stated, but at such a salary his services could not surely be commanded for long during each day.

Quite a colony of pharmacists and pseudo-pharmacists has made its appearance in the direction of the Cape (not of Good Hope, but of Smethwick), near Birmingham. There are about six of them very close together, one bearing the name of Thonger—a well-known name in Birmingham pharmaceutical circles—and two different establishments of the same name, one being carried on by the husband and the other by the wife.

By the death of Mr. Arthur Albright, of the firm of Albright & Wilson, of phosphorus fame, at the good old-fashioned age of 90, the Midlands has lost an excellent philanthropic friend of the Quaker sect. As such he was averse to war, and the following letter was written by him to an applicant for a large supply of amorphous phosphorus which was at that time undergoing trial in the production of safety-matches:—"Gentlemen,—Amorphous phosphorus in such quantities as stated in your letter can, to my best judgment, only be used for purposes of war. As I, who belong to the Society of Friends, disapprove of war, I beg respectfully to decline your order." *Tempora mutantur!* Mr. Albright was married in 1848 to Rachel Stacey, daughter of George Stacey, of the then firm of Corbyn, Mercer, Stacey & Co., chemists, London.

In some shops in Birmingham the system of fines has assumed such alarming proportions that a strongly-worded protest has been framed by the Assistants' Society to send to employers. This kind of thing does not greatly affect pharmacists, although it is known that in some large places a subscription of a few pence per week per person is demanded to counterbalance the loss incurred by breakages, which at times are numerous and serious.

In this district an enormous quantity of rubber is used annually, and there must be a great difficulty in getting native rubber in sufficient quantity for the purposes to which it is put. Much that is used is made artificially, and many patents have been granted for the artificial productions. The latest inventor is Mr. J. Barclay, B.Sc., who has perfected a process for the recovery of rubber from old residues, and works have been erected and a company formed to work the process out to a successful issue.

The interest created by the phrase *locum tenentes* has gratified the writer, who only this week saw an unusual extension of the remark in "locum-tenancy" in an advertisement in a local daily by a medical man who had relinquished regular practice.

Channel Island Items.

Mr. F. H. de la Rue, 22 States' Arcade, St. Peter-Port, Guernsey, has purchased the entire exhibit of the Vinolia Company at the Trades Exhibition recently held in St. Julian's Hall, Guernsey.

At a special sitting of the Jersey States on July 7, the Law on Medicine and Surgery, recently passed by that body as a permanent measure, but returned with a report from the General Medical Council suggesting certain modifications therein, was referred back to a Special Committee.

Mr. John Renouf, jun., proprietor of "The Drug Stores" in Burrard Street, St. Helier, Jersey, and who became a registered chemist under the local law on its coming into operation, appeared before the Police Magistrate on July 7 and 9, charged with having on various occasions used slanderous expressions with regard to Mr. J. W. Sinel, a former employé, and now of "The New Drug Stores" (Sinel & Son), Burrard Street. It was stated that Mr. Renouf had referred to Mr. Sinel as being a thief, both morally and criminally, stating he had received accounts to his prejudice. Mr. Sinel denied this, although admitting that a lady had paid an account which she said she owed, and for which he gave a receipt on his own billhead, no account being produced. One of the witnesses was a commercial traveller, named George Parker, to whom Mr. Renouf had repeated these observations. An account on Mr. Renouf's billhead was duly produced bearing the signature of Mr. Sinel, but the latter stated that the money had been refunded. The payee thought Mr. Sinel's drug-store was a branch of Mr. Renouf's. The Magistrate, summing up, said there was no doubt Mr. Sinel had received money belonging to Mr. Renouf, for which he should have apologised, though that did not justify Mr. Renouf's remarks. Mr. Sinel should be more careful in future. Defendant was accordingly discharged.

Soapmakers Dine.

The annual trade dinner of Messrs. Edward Cook & Co (Limited), East London Soapworks, Bow, was held at the Holborn Restaurant on July 7, nearly a hundred gentlemen being present, and a very happy evening was spent. The gathering was presided over by Mr. William Cook, who was supported by Mr. Samuel Hall, Mr. T. Alex. Cook, Mr. E. Miall Cook, Mr. S. Godfrey Hall, and Mr. Martyn Cook. After the loyal toast had been duly honoured, the Chairman referred to the kindly feeling which existed between the directors and the staff, and he felt sure that each individual would do his best to make the present year a successful one, and that all would work together for the prosperity of the company. The fragrant weed being introduced, songs, and recitations were beautifully rendered during the evening between the various toasts. Mr. George Newton's songs and recitations were much appreciated, and the violin solos by Mr. S. W. Green and Mr. H. Lomax were exceedingly good. Mr. G. A. Briance sang with much effect "There's a Land" and "A Soldier's Song." Mr. H. Morey Attwell contributed one of his humorous songs, the accompaniments being ably given by Mr. F. E. Blair.

Supplying Workhouse Drugs.

At a meeting of the Bedford Board of Guardians on July 6, it was stated that the salary of the new medical officer would

be 80*l.* per year, in addition to the cost of medicines to be supplied by chemists. One member protested against the cost of all the drugs falling on the Board, holding that it would mean an expenditure of about 30*l.* a year. He proposed that the salary should be 60*l.*, *plus* the drugs, and added that contracting for drugs was condemned in the profession and out of it. The Clerk stated that the Local Government Board approved of the Guardians obtaining drugs and medicines from chemists instead of through the doctor, and another member characterised it as being morally wrong to require a medical officer to supply drugs out of his own pocket, as it offered a temptation which only an individual of the strongest principles could withstand. The Board eventually decided to abide by its former decision.

Carbolic Casualties.

Richard Simpson, of Newcastle, took some carbolic acid by mistake on July 8, and died.

At Bolton, on July 5, William Hart committed suicide by taking a large dose of carbolic acid.

A Halifax woman, named Jessie Scobey, drank some carbolic acid on July 3, and died the same day.

Edward William Austen, a Worcester commercial traveller, drank a quantity of carbolic acid on July 6 in mistake for whisky, and at latest accounts was in a precarious condition.

Mary Rooney, the wife of a Manchester iron-turner; Mrs. Brunt, of Salford; and Thos. Lomas, a Manchester labourer, have each committed suicide this week by taking carbolic acid.

The Apprentice's Suicide.

At an inquiry held at Gosport, on July 4, respecting the death of William Henry Perry Sansom, who died at Messrs. Timothy White's stores, North Cross Street, from prussic-acid poisoning, Henry Sansom, chemist, and manager of one of Messrs. Timothy White's branches, identified the body as that of his son, who had been employed for about a year as an apprentice in the chemist's department at the branch business of Messrs. Timothy White, in North Cross Street, Gosport. Deceased was 19 years of age, but was in good health, although he had complained of headache since he had had typhoid fever. Two assistants in the same branch business as deceased deposed to finding him unconscious, with a prussic-acid bottle near by. Suicide while of unsound mind was the verdict.

Chemists and Children's Complaints.

At an inquest held at Wood Green, near London, regarding the death of an infant from measles, the mother deposed that she had got some medicine for it from a chemist, and Dr. Tomlin told the jury that he arrived at the house to find the child dead. It was a very puny child, and in his opinion had succumbed to measles, accelerated by bronchitis. He then went on to speak of a matter which he said was of great importance. He said an erroneous idea prevailed among a section of the public that a chemist had a better knowledge of children's diseases than a qualified medical practitioner. The sooner that notion was dispelled the better. In this instance the mother had consulted a chemist, and though he had no fault to find with the treatment he considered she would have been wiser to have seen a medical man. A "natural causes" verdict was returned.

The Coroner's New Point.

An inquiry was held before Mr. Sidney Smelt at Manchester, on July 10, touching the death of William Holliwell Simcock, chemist and druggist, who died suddenly in the sitting-room behind his shop, at 65 Medlock Street, Hulme, on the previous day. The principal witness was Eliza Simcock, deceased's sister, who had lived with him for many years. For some time past he had been in bad health, she said, but had not had any medical advice. On the day of his death she found him gasping for breath, and almost immediately after he expired. They had been ten years in the house. A police-constable gave evidence that there was no stock in the place. There were about four dozen broken bottles and a broken glass case. Questioned as to whether there were any poisons in the shop, Miss Simcock said there were none at hand that she knew of. There were plenty of things in the place without poisons. Her father was a chemist. They sold many things, but she had been very particular about selling poisons. The law was not so particular some years ago as it was now. She had a brother in Leeds and one in London—both chemists.

The Coroner (referring to the Register): There is another William Holliwell Simcock, 118 Kingsland Road, London. Do you know whether that is the right address?—That was his address.

And you have been here ten years?—Yes.

That was the deceased's address before he came here?—Yes.

How do you know somebody else has not used it now? He has been carrying on his business in Manchester in an illegal way.

Miss Simcock: You never heard of him poisoning anyone.

The Coroner: Are you any relation of James Sprent Simcock, Goswell Road, London?—Yes.

What is the brother in Leeds?—He is what you call a druggist's feeder. He does not go into drugs.

The Coroner: It is very suspicious carrying on business in Manchester in this way with a registration made in London ten years ago. There is nothing to prevent a doctor carrying on his practice in Manchester in the name of a doctor registered in the South of England, or in London, or in some other large town. The real doctor would not know. The Act, however, provides that they should register in the town in which they practise. It is the same with chemists. The jury returned a verdict of sudden death from natural causes.

Cricket.

Aldersgate C.C. (S. Maw, Son & Thompson) *v.* Crownfield C.C. (Welch, Margetson & Co.).—Played at Champion Hill on July 7. Aldersgate scored 120 and Crownfield 67 only, the result being an easy win for the sundries house, for whom C. Jones scored 50 and T. Clay 28 runs. C. T. Maw bowled well for the winners, and captured 6 wickets for 23 runs.

Davy, Hill's *v.* Burgoyne's.—Played at Wadham Lodge on July 7. Scores:—D.H.C.C., 70; Burgoyne's, 41. For the winners Tombs captured 6 wickets for 14 runs, and E. Sibley scored 41.

Wholesale Druggists' League.—Results up to and including July 7, 1900:—

—	Played	Won	Lost	Points
Burroughs, Wellcome's ...	3	3	0	6
City Mills	4	2	2	4
Davy, Hill's	3	1	2	2
Burgoyne's	4	1	3	2

Fires.

A fire broke out last week in a store belonging to Mr. W. H. Humfrey, chemist, Bench Street, Deal, through the heating and ignition of some shelves nailed against a copper which was in use. The flames spread to the rafters and the roof fell in, but the fire-brigade quelled the conflagration with buckets of water.

A fire broke out on Sunday night, July 8, at the Toxteth Dock, Liverpool, amongst a quantity of palm oil, palm-kernels, and other goods, which were destroyed. The s.s. *Batanga* and *Bonny* were more or less scorched, but the fireproof walls and doors effectually confined the conflagration to the compartment in which it originated.

No Expenses Allowed.

During the hearing of a case at South-West London Police Court on July 7 against a midwife and a police-constable of administering noxious drugs and using an instrument for an unlawful purpose, Mr. Brook, chemist, of Grayshott Road, Battersea, gave evidence as to supplying a woman named Claringbold (who committed suicide in Holloway Prison while under remand for conniving with one of the prisoners in similar offences) with drugs. During a period extending over five years he had sold her ergot of rye of the value of

28*l.* and pills worth 22*l.* 13*s.* 10*d.* Before leaving the witness-box Mr. Brook asked that he might be allowed his expenses for attending the court. Mr. Muir (prosecuting for the Treasury) objected, and said that witness must put up with the consequence whenever he chose to supply drugs in so wholesale a manner.

A Hospital Drug-contract.

At a meeting of the Stockton-on-Tees Hospital Committee on July 10, one of the members moved that the minute referring to the appointment of Mr. Salmon, chemist, to supply the drugs to the hospital should be deleted. He protested against the manner in which the appointment had been made. Many of the members of the committee had received no intimation that the appointment was to be made, he said, nor did the chemists in Stockton and Thornaby, with the exception of Mr. Salmon and the holder, Mr. Rouchetti, know anything about it. He suggested that in the meantime Mr. Salmon had been informed of the fact that Mr. Rouchetti's contract was at an end, and had waited upon the Chairman of the house committee and several of the members. The action was entirely irregular, and would not reflect to the credit of the hospital if unchallenged. The inferences suggested by the objector were denied, and eventually, upon the understanding that in future the Secretary would give notice to each member of the committee and also to the chemists of the two towns (Stockton and Thornaby) that the appointment of a person to supply drugs would be made, the resolution was withdrawn and the matter dropped.

Irish News.

Analyst Appointment.

The Lisburn Board of Guardians on July 10 received a letter from the L.G.B. approving of the appointment of Mr. Robt. Barklie, Belfast, as analyst, at a salary of 20*l.* per annum.

Irish Exhibition.

At a meeting of the Irish Industrial League last week, it was resolved to take steps to hold in Dublin next year a grand Irish International Exhibition. A guarantee fund of 200,000*l.* will be required. The Lord Mayor of Dublin has publicly approved of the scheme, and a meeting of the representatives of trade and commerce in Ireland is being convened in the matter.

Dublin Gas.

In connection with some correspondence which has lately appeared in the Dublin newspapers on the mixing of water-gas with coal-gas, Dr. McWalter, M.P.S.I., suggests that Professor Tichborne, M.C.P.S.I., should be called on to test the gas for carbon monoxide. The gas company agree, and describe Dr. Tichborne as an eminent chemist, and one upon whose opinion the utmost reliance might be placed.

Cork Agricultural Society.

At the Summer Show of the County Cork Agricultural Society held last week, the Permanent Nitrate Committee of London exhibited specimens of caliche from Chili, besides photographs of wheat, oats, barley, and mangolds, grown in soil treated with nitrate of soda. Messrs. Kiloh & Co., chemists, Cork, exhibited potato anti-blight, sheep-dip, weed-killer, and universal disinfectant.

Fires in Belfast.

On the night of July 6 the brigade were called to extinguish a fire which had broken out in the premises of Messrs. Campbell & Doyle, chemists, Great Edward Street, Belfast The fire was extinguished before much damage was caused.

In the early morning of July 7, a fire broke out on the premises of Mr. Wm. Pollock, wholesale druggist, 42 to 50 Tomb Street, Belfast. The fire originated in the stables behind the stores, and out of these three horses were rescued with difficulty. The fire-brigade prevented the flames spreading to the stores, which, however, suffered from water.

The Newry Contract.

In connection with the contract for surgical appliances given to Messrs. S. Connor & Son, Newry (*C. & D.*, July 7, page 4), the L.G.B. informed the Newry Guardians on July 7 that Messrs. Connor do not carry sufficient stock of surgical goods to meet the requirements. The Guardians are replying that the tender was the cheapest, and they have every confidence that the contract would be satisfactorily carried out.

Business Changes.

A new pharmacy is to be opened shortly in the Antrim Road District, Belfast, at 43 Duncairn Street, by Mr. C. H. Nesbitt, L.P.S.I., which will be known as "Nesbitt's Medical Hall." The fitting-up has been entrusted to the local firm of Mitchell & Son. Mr. Nesbitt will continue his York Street business.

Messrs. Hayes, Conyngham & Robinson (Limited), pharmaceutical chemists, 12 Grafton Street, Dublin, have purchased the old-established business (including the prescription-books and proprietaries) of Messrs. Anderson & Adams, 68 Grafton Street, which they intend moving to 12 Grafton Street on August 1.

Broken-window Award.

At the Derry Recorder's Court on July 6, a number of claims were heard for damage to window-glass broken on the night of the capture of Pretoria. Amongst others Mr. Richard A. Austin, chemist, The Diamond, Londonderry, suffered, the stone which did the damage being thrown at loyalists who were demonstrating. The window was insured for 7*l.* 10*s.* It cost 5*l.* 10*s.* to replace the plate glass, and the Recorder allowed Mr. Austin that amount.

A Rates Case.

At the Belfast Recorder's Court on July 10, Judge Fitzgibbon had a rather interesting case before him in which the vexed point about the payment of rates by the landlord or occupier (under the recent Local Government Act) was decided. The plaintiffs were Messrs. J. & J. Haslett, Belfast, who sought to recover a balance of 15*l.* for rent due by the Albion Liver Factory. The defendants had paid the rent less 15*l.* for poor-rates, which, as occupiers, they had to pay to the rate-collector, and they held that they had a right to deduct this amount from the rent, as the plaintiffs in March, 1899, in giving a lease of the premises from May 1, had covenanted to pay all taxes except the water-rate. The plaintiffs contended that the covenant of the landlord to pay poor-rate was illegal in the case of a tenancy created after April 1, 1899; while for the defendants it was argued that the tenancy was an existing one on the appointed day under the Local Government Act, and that therefore the defendants were entitled to make the deduction. The Recorder held that the memorandum on March 14 was an existing lease, and the plaintiffs' contention could not be maintained. The action was dismissed without prejudice.

Scotch News.

Business Changes.

Mr. James D. Walker, chemist and druggist, has acquired the business formerly carried on by Mr. William Sangster at 5 Alvanley Terrace, Bruntsfield Links, Edinburgh.

Messrs. Bell & Sutherland, chemists and druggists, of Rodney Street, Edinburgh, have dissolved partnership, and Mr. John George Sutherland is carrying on the business on his own account in his own name.

A Fatal Dose.

An Aberdeen child named Jane Donald, aged 6 years, is slowly recovering from the effects of having, on July 6, mistaken a bottle of belladonna-liniment for a black draught, which she had seen her sister drinking. She is said to have swallowed about 8 oz. of the liniment before she was noticed.

French News.

(From our Paris Correspondent.)

M. MILNE-EDWARDS'S BEQUESTS.—The late M. Milne-Edwards, Director of the Paris Museum of Natural History and Professor of Zoology at the Paris School of Pharmacy, has bequeathed his scientific library, which is exceptionally complete and valuable, to the Paris Museum. The books are to be sold, and the proceeds will be applied towards maintaining the professorship of zoology, which the deceased *savant* occupied with so much distinction. M. Milne-Edwards also bequeathed 20,000f. to the Paris Société of Géographie, of which he was President, and 10,000f. to the Société des Amis des Sciences.

THE PELLETIER-CAVENTOU MONUMENT. — The Paris Municipal Council has recently given its official sanction to the site selected for the Pelletier-Caventou monument. This spot is the point where Boulevard Saint Michel is intersected by the Rue Denfert Rochereau, opposite the Luxemburg Gardens, and not far from the Paris School of Pharmacy. The site is suitable and well chosen. The committee has fixed Wednesday, August 8, as the date of the inaugration of the monument, and the ceremony will take place on the termination of the Congress of Pharmacy. The process of casting the statue in bronze took place last week in the presence of M. Marty, Vice-President of the committee, M. Caventou fils, ex-President of the Paris Academy of Medicine, and other gentlemen.

THE PHARMACY CONGRESS.—The programme of the proceedings of the Ninth International Congress of Pharmacy to be held in Paris from August 2 to August 8 has been published. In the section devoted to pharmacy and pharmaceutical chemistry reports will be received on (1) the estimation of active principles in crude drugs and pharmaceutical preparations ; (2) doses and antidotes to poisonous substances; (3) International Pharmacopœia. The other communications in this section are: a method of capsuling liquid and solid medicaments, M. Lépinois; apparatus for the rapid estimation of extracts, M. Brociner ; emetics, M. Baudran; glycerophosphates and their estimation, M. Prunier; the aloins, M. Leger; the composition of the albumen of St. Ignatius bean, nux vomica, and hemlock seed, M. Bourquelot; a new colour-reaction common to pepsin peptones and papaine peptones, M. Harley; the composition of the albumen of clover, asparagus, and colchicum seeds, M. Hérissey; the composition of the albumen of the seeds of *Gleditschia triacanthos*, M. Goret; the action of persulphate of ammonia on certain bodies, and especially on those met with in toxicological researches, M. Leprince. The other sections of the Congress have also numerous reports and communications to receive.

THE CONGRESS SEASON in Paris is now in full swing. The International Congress of Applied Chemistry will be held in Paris from Monday, July 23, to Saturday, July 28, and has been organised by the Association of Chemists of Sugar Refineries and Distilleries. Professor Moissan is President, and M. François Dupont, 156 Boulevard Magenta, Paris, General Secretary. This will be the fourth International Congress of Applied Chemistry, the preceding ones having been held at Brussels, Paris, and Vienna. There is, of course, always the possibility that practically the same questions of pharmaceutical chemistry may be discussed at the Congress of Chemistry, and that of Pharmacy, which will be held at only a few days' interval. But a good many professors of pharmacy and pharmacists in business will be present at both Congresses, and no doubt this influence will have weight, especially in Section VIII., which will treat questions of hygiene, medical and pharmaceutical chemistry, and adulteration of articles of food. This section is under the able control of M. Riche. The following are some of the subjects at present put down for discussion :—"Intervention of Soluble Ferments in the Preparation of Medicines," "Synthetical Products Introduced in Therapeutics," "Study of the Transformation of Albuminous Matters *in vitro* and in the Organism," "Urine ; Determination of the Total Nitrogen. Unification in Expressing the Results of Medical Analysis," "Mineral Waters ; the Results of their Elementary Analysis," as well as the analysis of drinking-water and of food-stuffs generally.

Colonial and Foreign News.

SPANISH QUICKSILVER-TRADE.—The export of quicksilver from Spain for 1899 shows a decrease of 3 tons under 1898, when 43 tons were exported. The United Kingdom took 17 tons (2,380*l.*) and France 23 tons (3,220*l.*) in 1899.

CAMPHOR-TREES IN CEYLON.—Mr. Owen, of Lindula, Ceylon, has been making experiments with camphor-tree prunings, and has got about 1 per cent. camphor—that is, 7 lbs. of prunings from a five-year-old tree (from Hakgala) yielded about 1 oz. of solid camphor, besides oil.

DUTCH PHARMACEUTICAL REFORM. — At the annual meeting of the Netherland Society for the promotion of Pharmacy, to be held in Groningen on July 18 and 19, the following are the subjects to be treated:—Treatment and duty of pharmaceutical assistants, salary, hours of work on Sundays and weekdays, and old-age insurance.

THE UNIVERSITY OF CRACOW celebrated its fifth centenary recently. England was represented by Professor Morfield, of Oxford. According to an old Polish custom the procession filed into the St. Anna Church, which was for this occasion made the place of assembly. Before the altar the busts of the Emperor, King Casimir the Great (the founder of the University), and Queen Hedwig were placed. The rector of the University, Count Stanislaus Tarnowski, made a speech in Latin.

JAPANESE WEIGHTS.—A new standard of weight has been introduced in Japan. Prior to January 1 of this year a Japanese kin or catty was in practice taken to be equivalent to $1\frac{1}{2}$ English lb. (avoirdupois), though in reality, according to the metric system, it equals 1.322773 English lb. Under Japanese law only scales and weights inspected and approved by the Government can be used for weighing objects, with the standard weight of kin (catty), and it was notified that persons who should continue to use the English pound for that purpose would be prosecuted. As a result, all foreign firms are compelled to have scales complying with the Japanese regulations. But, according to Mr. A. H. Lay, assistant in her Majesty's Consular Service in Japan, in actual business calculations in many cases are still based upon the old system, use of the new scales not being resorted to. Imports, it is stated, are frequently weighed on foreign scales, the method of weighing being apparently immaterial when it is determined by mutual consent. Exports, however, are weighed in Japanese scales, and before long it is expected that the use of the new scales will become universal.

DRUGS, MEDICINES, AND SOAPS FOR CHINA.—The eyes of Europe and the United States are just now centred in China owing to the Boxer insurrection and the peril of all Europeans there. Commerce must therefore be suffering from the unsettled state of affairs, so that the following remarks from the report of the American Consul at Hong-Kong may perhaps be acted upon at some future time when the crisis has ended. He says that "all medicinal preparations intended for sale among the Chinese would have to be made up at some point on the coast, and introduced among the Chinese by sample bottles. Ordinary advertising matter is of no avail; a Chinaman believes only what he experiences. The native drug-houses adopt this method of bringing some patent specifics to the notice of the trade. Necessarily, the labels as well as wrappers would have to be in Chinese. Tonics, of which quinine is the principal ingredient, will sell in large quantities. Embrocations for neuralgic and rheumatic affections—in fact, anything for fevers, worms, coughs, dysentery, constipation—would have a ready sale if properly put up and introduced. There is, however, no hope for the introduction of the ordinary patent medicine in its original wrapper. There is also a good market for both soaps and scents, which should contain musk or patchouli. The scents, should be put up in very cheap $\frac{1}{4}$-oz. and $\frac{1}{2}$-oz. stoppered bottles and wrapped in yellow or red paper, lettered in Chinese. If an enterprising manufacturer would go into the market to win and distribute a few thousand dollars' worth of samples in Canton, he would soon build up a trade that would astonish him.'

Australasian News.

Chiefly from "The Chemist and Druggist of Australasia," June 1, 1900; 6d. per copy, post free.

INGRAM'S ENEMAS.—Messrs. J. G. Ingram & Son, Hackney Wick, London, have commenced proceedings against the Indiarubber, Guttapercha and Telegraph Works Company (Limited), 274 Flinders Street, Melbourne, for an alleged encroachment of their trade rights in connection with Ingram's No. 1474 Enema.

MR. FREDERICK THORNLEY, pharmaceutical chemist (G.B.), well known in Australasia as a former representative of Messrs. Burroughs, Wellcome & Co., has purchased the business of Mr. A. Forbes, Maryborough. Mr. Thornley applied to the Pharmacy Board of Queensland for registration, and was provisionally registered for three months pending the arrival of his diploma from England.

COLOURED-FIRE MAKING.—The regulations of the Government Inspectors of Explosives, Wellington, N.Z., allow of pharmaceutical chemists being licensed to manufacture at their usual places of business, under certain conditions, a quantity of coloured fire not exceeding 5 lbs. in one day. Notice of intention to manufacture has to be given the day before to an inspector of explosives. The coloured fire may not be sold to children under 13 years of age, and must be stored and sold in tin canisters.

THE OTAGO PHARMACEUTICAL ASSOCIATION held its second annual meeting on April 27 at Dunedin, N.Z. A credit balance of 33*l.* 2*s.* 5*d.* on the accounts is due largely to the generosity of the President in paying the rent of the Association's rooms. The report also states that two members of the committee—Messrs. Johnstone and Bagley—were returned unopposed as members of the Pharmacy Board, and that Mr. Woodward, the Hon. Treasurer, has been appointed Deputy Registrar. The annual dinner, held on May 16, was a successful one.

THE BUBONIC PLAGUE, which has been definitely found to be communicated by animals, has caused the publication in Australia of numerous suggestions for poisoning rats and keeping off fleas. A mixture of strychnine (10 oz.), saccharin (6 oz.), rotten cheese (6 lbs.), and fat (5 lbs.) is said by Dr. Gresswell to be a very rapid poison for rats, and if water is left in the vicinity, the vermin will endeavour to crawl over to it to quench their thirst. Smear on bread, carrots, melons, potatoes, or other attractive food. Phosphor paste may not kill the rats for some days. The rats tire of any bait, or else avoid it, when they notice the effect of eating it, and it is therefore necessary to provide a change in the bait from time to time. To prevent the attacks of fleas, Dr. Cuscaden says that thoroughly washing the body with strong carbolic soap once a day will not alone keep the fleas away, but will in all probability render innocuous any bites. Dr. Gresswell says that if the underwear is dipped in carbolic acid it will prevent the fleas biting, but may set up an irritation of the skin. In Sydney, medical men dip socks and trousers in formalin, but this has to be repeated once a day, and the odour is objectionable to some.

THE CONDY PROSECUTIONS.—It appears that about nine chemists in New South Wales received exactly similar letters from the solicitor to Condy & Mitchell, demanding the sum of 10*l.* for infringement of their clients' rights, failing the payment of which a writ would issue. In two cases chemists came to a settlement. In the first case a customer had been supplied with permanganate of potash labelled "Condy's crystals," as asked for. This chemist got off on the payment of 20*l.* Another engaged a solicitor to settle the matter, and it cost more. The other seven chemists had all been asked for Condy's crystals, but had supplied permanganate of potash, and labelled it "Permanganate of potash." Some of them consulted the solicitors of the Pharmaceutical Society, and were advised they had not infringed the rights of Condy & Mitchell. The Society informed the solicitors of Condy & Mitchell that they would defend any action brought against them, but nothing further has been heard about the matter. In Victoria quite a number of chemists have paid damages of varying amounts, many of them escaping with a penalty of 5*l.* No case appears to have been brought in which the article sold had been labelled "Permanganate of potash."

South African News.

(From our own Correspondent.)

MESSRS. P. J. PETERSEN & Co., chemists and druggists, Cape Town, have been appointed contractors for the sale of drugs, patents, and photographic goods to the Cape Government Dispensary on Robben Island.

MEDICAL AND PHARMACEUTICAL LICENCES. — Mr. Frederick Pocklington has been licensed to practise as a chemist and druggist in the colony of the Cape of Good Hope and dependencies. Drs. Alexander Rediker and Arthur Dickson Ketchen have been authorised to practise medicine in the colony.

A QUESTIONABLE CUSTOM IN THE TEA-TRADE.—In the case of Bennett *v.* White, Ryan & Co., heard in the Supreme Court of Cape Colony on June 14, in which plaintiff, as agent and tea-merchant, sued defendants for breach of contract in connection with the importation of some large consignments of tea from Ceylon, plaintiff won his case and was awarded 250*l.* and costs. In the course of his evidence, plaintiff stated that it was sometimes the custom to supply 15 oz. of tea instead of the full 16 oz. per lb., and there was a clause in the contract to that effect put there at the defendant White's suggestion. Mr. White explained this by stating that plaintiff himself said the supplying of 15 oz. to the pound was a trade-custom, and he should want 1*d.* more per lb. if the full 16 oz. were to be supplied. This matter, being only a side-issue to the principal action, did not affect the ultimate ruling of the Court, but it will be well for chemists to bear this so-called trade-custom in mind when dealing in tea.

INDIAN HEMP IN THE ORANGE RIVER COLONY.—Major-General G. F. Pretyman, Military Governor of the Orange River Colony, has prohibited the traffic in "dagga" (*Cannabis sativa*) in a notice dated June, 1900, which reads as follows:—"Notice is hereby given that the sale and use of 'dagga,' or 'Indian hemp,' is hereby strictly prohibited in the Orange River Colony, and any person who shall sell, supply, or give 'dagga,' or 'Indian hemp,' to any person or persons whomsoever, or any person who shall use or smoke the said article, shall be liable on conviction to pay a fine not exceeding 25*l.*, or in default of payment shall be liable to imprisonment not to exceed three months, with or without hard labour." The use to which the natives put "dagga," or "um-Ya," as they call it, has previously been described in the *C. & D.*, and the demoralising effect which it has on them, extending in some instances over days, is very great. "Dagga" grows wild and is plentiful in South Africa, so we fear it will be difficult to put a law into effectual operation prohibiting its use. The Government of the now defunct South African Republic kept a very strict eye on the drug, but the Indian colonists outwitted them by importing it from India.

QUALIFIED ASSISTANTS' SALARIES IN SOUTH AFRICA.—The expense of living in the various South African centres differs considerably. A salary of 35*l.* per month in Salisbury would be none too much, in Johannesburg 20*l.* to 25*l.* is a fair wage, while 17*l.* is a liberal salary, *plus* a small commission on sales, in coast towns. The proverbial 10*l.*, 11*l.*, and 12*l.* per month, passage paid out, with a three-year agreement, ought not to prove a great attraction to qualified men with British papers. To live in anything like decency and comfort on the coast-line costs 7*l.* per month, and the small amount remaining, calculating all other expenses at 100 per cent. advance over those in operation at home, is not sufficient. Many an assistant has reason to grumble at his salary only too soon after arrival; especially is this the case when he sees the ordinary clerk ahead of him as regards pay. Assistants in South Africa, as a body, are very hard worked. The climatic conditions are not to an Englishman what the steamship guides allege, and many men are unable to stand the heat and wind. Unqualified men should on no account come out to the country "on spec.," as there is little or no demand for their services. Chemists with the British qualification usually find immediate employment, but they should be warned against rushing to South Africa after the war on the pretext that lots of billets will be open.

Westminster Wisdom.

The Australian Commonwealth.

On Monday the Queen sanctioned the statute which unites the Australian colonies "in one indissoluble federal commonwealth under the Crown of the United Kingdom of Great Britain and Ireland." The table upon which the Queen signed the statute and the inkholder and pen which she used on the occasion have been presented to one of the delegates, and are to be preserved in the new Federal Parliament-house. The delegates are now mostly on their way home, and soon Australia will unify her commercial laws, especially in relation to the import-duties.

The Sick and Wounded.

The Committee which Mr. Balfour proposed to investigate Mr. Burdett-Coutts's charges did not satisfy the House of Commons. He named Dr. Church (President of the Royal College of Physicians), Professor Cunningham (of Dublin), and Lord Justice Romer, which gave a medical majority, and, acceding to the protests of the House, two laymen are to be added to the Committee.

The Companies Bill.

The Standing Committee on Trade resumed their consideration of the Companies Bill on Monday, when an amendment raising the question whether or not the underwriting of shares should be allowed was negatived; but an amendment was passed to the effect that a company should have power to pay such brokerage as had hitherto been lawful. Mr. Marks occupied a great part of the time of the Committee with his amendments, and the legislators got no further than Clause 11, which deals with the filing of prospectuses. There are thirty-six clauses in the Bill, and the progress had been so slow (six clauses per week) that Sir Henry Fowler suggested that the permission of the House of Commons should be obtained to sit while the House was sitting. Some such course was necessary if the Bill was to get through. Mr. Ritchie quite approved of the suggestion; but on the Chairman (Mr. Arthur O'Connor) asking whether it was the desire of the Committee that he should seek the permission of the House as suggested, there were cries of "Yes!" and counter-cries of "No!" Mr. Ritchie said he thought it was essential they should meet an hour earlier or sit more frequently. He would make a motion on the subject at next meeting. Nevertheless, Mr. Ritchie in the House on Tuesday proposed that the Committee should have leave to sit every day during the sitting, and notwithstanding the adjournment of the House; but this was considered too wide a motion, and after some discussion it was reduced to a resolution to sit during the sitting of the House. The Bill will, therefore, go forward more rapidly now. [In our report of the debate on Clause 2, the name of Mr. Galloway (Manchester) should have been given as the mover of the amendments put down in Mr. Harwood's name.—Editor.]

Cholera and Typhoid Inoculations.

According to a return just presented to Parliament, at the instance of Sir Charles Cameron, no official record has been kept of the number of British troops in India inoculated against cholera and typhoid, but it is known that over 2,000 inoculations have been performed, and that in no case have any unfavourable symptoms followed the operation. Further, only a very few—some five or six—of those inoculated contracted typhoid fever subsequently, with the exception of one case of a mild character, and two others where the disease was in a state of incubation when the operation was performed.

New Zealand Tariff Decisions.—The Customs authorities in New Zealand have gazetted the following:—Albo-carbon (identical with naphthalene) as disinfectant, free; formalin, formalith, and formalin streupulver as disinfectants, free; health foods—viz., granola, granose, nuttose, nut-butter, bromose, as provisions n. o. e., 20 per cent.; "Whirler," an apparatus for spreading sensitising-solution, evenly on photographic-plates, as photographic-goods, n. o. e.-20 per cent.

Pharmaceutical Society of Ireland.

COUNCIL-MEETING.

The Council met on Wednesday, July 4, at 67 Lower Mount Street, Dublin, at 3 o'clock. The President (Mr. George Beggs) took the chair, and the other members present were the Vice-President (Mr. Bernard), and Messrs. J. E. Connor (Newry), George Brown, P. M. White (Sligo), Simpson, and Kelly.

The President said he had great pleasure in welcoming Mr. George Brown, the newly-elected member of Council. He felt sure that Mr. Brown would be of great service to them. (Applause).

Mr. Brown returned thanks.

A letter from the Privy Council office stated that the draft regulation, which had been forwarded to the Privy Council for approval, requiring candidates for the Registered Druggists' examination to be 21 years of age, would receive the attention of the Privy Council.

A letter from the Secretary of the Smithsonian Institution, Washington, thanked the Council for a copy of the Society's Calendar which had been forwarded to them.

On the motion of the Vice-President, seconded by Mr. White, it was ordered that the names of certain members who were in arrear with their subscriptions should be struck off the roll of members.

A letter from the Clerk of Castleblaney Petty Sessions forwarded 3*l.* 6*s.* 8*d.*, being two-thirds of a fine which had been imposed on an unqualified assistant named James White, for selling poison.

A letter from the Assistant Under-Secretary, Dublin Castle, enclosed a copy of a memorial which Mr. W. J. Gibson, chemist and druggist, of Belfast, had sent to the Lords Justices, praying for a reduction of fines which had been imposed on him for illegal compounding, and requested that the Council would favour the Lords Justices with their observations thereon. The memorial was referred to the Law Committee.

Reports from the several committees were disposed of.

On the motion of the President, seconded by Mr. Kelly, Mr. J. S. Ashe, M.P.S., was elected Professor of Materia Medica, and Mr. J. N. Laird, B.A., was elected Professor of Botany.

Mrs. Mary Fitzpatrick, Benburb Street, Dublin, was elected an associate druggist.

Mr. Brown was elected a member of the Law and the Declarations Committees, in the room of the late Mr. Downes; and of the House and School Committees, in the room of Mr. Michie.

The Council then adjourned.

PRELIMINARY EXAMINATION.

The following have passed the recent examination: Bridget R. Clinton, G. T. Wilson, W. Fee (R. Apsley and C. Donovan equal), W. Cleary (Wm. Finegan and W. J. Nolan equal), D. Warwick, and O. Froedman. Nine candidates were rejected.

New Books.

Allen, A. H. *Commercial Organic Analysis.* Vol. ii. pt. ii. Hydrocarbons. 8vo. 14*s.* (Churchill.)

Eccles, W. McAdam. *Hernia: Etiology, Symptoms, Treatment.* $8\frac{7}{8} \times 5\frac{1}{2}$. Pp. 246. 7*s.* 6*d.* net. (Baillière.)

Edwards, F. G. *Chemistry an Exact Mechanical Philosophy.* 8vo. 3*s.* 6*d.* (Churchill.)

Freyberger, L. *Diseases of Children: Freyberger's Pocket Formulary,* 1900. $6\frac{3}{4} \times 4\frac{1}{4}$. Pp. 240. 7*s.* 6*d.* net. (Rebman.)

Higginson, C. J. *Foods and Drugs: a Manual for Traders and Others.* $7\frac{1}{2} \times 5$. Pp. 179. 2*s.* 6*d.* net. (Effingham Wilson.)

Kennedy, Samuel. *Failure of Surgery in Cancer.* $7\frac{1}{2} \times 5$. Pp. 160. 1*s.* net. (Simpkin.)

Lee, A. B. *Microtomist's Vade-mecum.* 8vo. 15*s.* (Churchill.)

Wallace, J. S. *Cause and Prevention of Decay in Teeth.* 8vo. 5*s.* (Churchill.)

Pharmaceutical Society of Great Britain.

SPECIAL COUNCIL-MEETING.

A MEETING of the Council was held on July 11 at 12 o'clock for the purpose of confirming the new by-laws. There were present the President (Mr. Newsholme), the Vice-President (Mr. Allen), the Treasurer (Mr. Atkins), and Messrs. Carteighe, Cooper, Hills, Martindale, Savory, and Wootton.

On the motion of the PRESIDENT, the by-laws were taken as read, and a motion that they be confirmed according to the requirements of the Royal Charter was carried unanimously.

The Council then went into committee.

"FIRST" EXAMINATION.

THE following are the questions which were given at the examination held throughout Great Britain on Tuesday, July 10. The examination is notable as being the last which the Society is to hold, as in future candidates for registration will be required to submit certificates from approved examining bodies :—

LATIN.

(Time allowed—from 11 A.M. to 12.30 P.M.)

I. For all Candidates. Translate into Latin :—

1. The queen promised a reward to her soldiers.
2. He came from the city with the greatest speed.
3. These poets will be praised by all the people.
4. These letters are to be sent to-day.
5. It behoves us to do right, in order that we may not appear unjust.

II. Translate into English *either* A (Caesar) *or* B (Virgil).

(Candidates must not attempt both authors.)

A.—CAESAR.

1. Quibus rebus cognitis, quum ad has suspiciones certissimae res accederent; quod per fines Sequanorum Helvetios traduxisset; quod obsides inter eos dandos curasset; quod ea omnia non modo injussu suo et civitatis sed etiam inscientibus ipsis fecisset; quod a magistratu Aeduorum accusaretur, satis esse causae arbitrabatur, quare in eum aut ipse animadverteret, aut civitatem animadvertere juberet.

2. Bello Helvetiorum confecto, totius fere Galliae legati, principes civitatum, ad Caesarem gratulatum convenerunt: Intelligere sese, tametsi, pro veteribus Helvetiorum injuriis populi Romani, ab his poenas bello repetisset, tamen eam rem non minus ex usu terrae Galliae, quam populi Romani accidisse: propterea quod eo consilio florentissimis rebus domos suas Helvetii reliquissent, uti toti Galliae bellum inferrent, imperioque potirentur, locumque domicilio ex magna copia deligerent, quem ex omni Gallia opportunissimum ac fructuosissimum judicassent, reliquasque civitates stipendiarias haberent.

Grammatical Questions.

(For those only who take Caesar.)

1. Give the genitive singular, the gender, and the English of the following nouns:—*ordo, impetus, dies, ditio, tempus, vesper.*
2. Give the principal parts and the English of the following verbs:—*ignosco, incido, capio, debeo, miror, occulto.*
3. Explain the construction of—"Bello Helvetiorum confecto"; and account for the moods of *repetisset* and *accidisse.* (Passage 2.)
4. Write in Latin—17, 39, 5*th*, 23*rd*, *twice a day*, *one-fourth*, *sixteen hundred men.*

B.—VIRGIL.

1. Aeolus haec contra: "Tuus, o regina, quid optes,
Explorare labor; mihi jussa capessere fas est.
Tu mihi, quodcumque hoc regni, tu sceptra Jovemque
Concilias; tu das epulis accumbere Divum,
Nimborumque facis tempestatumque potentem."
Haec ubi dicta, cavum conversa cuspide montem
Impulit in latus; ac venti, velut agmine facto
Qua data porta, ruunt, et terras turbine perflant.

2. His commota fugam Dido sociosque parabat.
Conveniunt, quibus aut odium crudele tyranni
Aut metus acer erat: naves, quae forte paratae,
Corripiunt, onerantque auro. Portantur avari
Pygmalionis opes pelago; dux femina facti.
Devenere locos, ubi nunc ingentia cernes
Moenia surgentemque novae Carthaginis arcem;
Mercatique solum, facti de nomine Byrsam,
Taurino quantum possent circumdare tergo.

Grammatical Questions.

(For those only who take Virgil.)

1. Give the genitive singular, the gender, and the English of the following nouns:—*cumulus, dapes, principes, praemium, robur, rus.*
2. Give the principal parts and the English of the following verbs:—*sequor, uro, veho, vereor, diffundo, aspicio.*
3. Explain the construction of "Haec ubi dicta"; and account for the moods of *optes* and *capessere.* (Passage 1.)
4. Write in Latin—17, 39, 5*th*, 23*rd*, *twice a day*, *one-fourth*, *sixteen hundred men.*

ARITHMETIC.

(Time allowed—from 12.30 P.M. to 2 P.M.)

(*The working of these questions, as well as the answers, must be written out in full.*)

1. What will be the purchase-money of an estate containing 191 acres 3 roods 37 poles at 42*l.* 3*s.* 4*d.* an acre?
2. If 6,664 men on half rations consume 357 quarters of wheat in 57 days, how many quarters of wheat will 798 men on full rations consume in 119 days?
3. If the owner of $\frac{4}{17}$ of a vessel sold $\frac{3}{11}$ of $\frac{2}{9}$ of his share for 240*l.* 6*s.* 8*d.*, what was the value of $1\frac{1}{4}$ of $\frac{4}{17}$ of $\frac{2}{5}$ of the same vessel?
4. Multiply ·000431 by 87·2. Divide ·0002992 by ·0187.
5. A tradesman, who is selling off, makes a reduction of 10 per cent. from the marked price. What is the marked price of an article for which he receives 15*s.* 9*d.*?
6. At what price do I buy a $2\frac{3}{4}$-per-cent. stock, if by investing 7,100*l.* I secure an income of 200*l.* a year?

The following question must be attempted by every candidate :—

7. What is the cost of 47 kilos. 84 grammes of an article at 23·57*l.* per kilogramme?

ENGLISH.

(Time allowed—from 3 P.M. to 4.30 P.M.)

1. Parse fully:—

"But when the sun was sinking in the sea
He seized his harp."

2. What different kinds of subordinate clauses are there? Write sentences in illustration.
3. Correct the following sentences, giving your reasons :—

(*a*) If every one did their duty people would be happier.
(*b*) Whom do they say that I am?
(*c*) The consequences of this disastrous policy remains to see.

4. In the following passage, supply the necessary capital letters, and put in the stops and the inverted commas where necessary :—
that is beside the point said robert what you have admitted is that you regard your fellows from a moral point of view then you cannot judge them as you would judge a book style cannot save them well if i grant that what then asked percy i dont see what you are driving at

The following question must be attempted by every candidate :—

5. Write a short composition on *one* of the following subjects :—

(i.) The Modern Newspaper.
(ii.) The Paris Exhibition.
(iii.) Emigration.
(iv.) "Manners make the man."

JACOB BELL SCHOLARSHIPS.

THE examination for these scholarships was held on Tuesday simultaneously with the "First" examination in London and provincial centres. The first three hours (11 A.M. to 2 P.M.) were devoted to Latin, English, arithmetic, and French or German. The afternoon (3 to 5 P.M.) was devoted to the paper on chemistry, pharmacy, and botany.

LATIN.

1. Translate into English :—

Ecce autem telis Panthus elapsus Achivum,
Panthus Othryades, arcis Phoebique sacerdos,
Sacra manu, victosque Deos, parvumque nepotem
Ipse trahit, cursuque amens ad limina tendit.
"Quo res summa loco, Panthu? quam prendimus arcem?
Vix ea fatus eram, gemitu cum talia reddit:
"Venit summa dies et ineluctabile tempus
Dardaniae. Fuimus Troës; fuit Ilium, et ingens
Gloria Teucrorum. Ferus omnia Jupiter Argos
Transtulit. Incensa Danai dominantur in urbe.
Arduus armatos, mediis in moenibus adstans,
Fundit equus, victorque Sinon incendia miscet,
Insultans. Portis alii bipatentibus adsunt,

Millia quot magnis unquam venere Mycenis.
Obsedere alii telis angusta viarum
Oppositi; stat ferri acies mucrone corusco
Stricta, parata neci; vix primi proelia tentant
Portarum vigiles, et caeco Marte resistunt."

2. Translate into English:—

(*a*) Cum omnia praeparata secundum nostram, nec secundum aliam praescriptionem paranda sint, eas tantum notas addidimus, quas hoc modo parata ostendunt, nec non vitia indicavimus, quae tunc fortuito occurrere possunt; ea vero neglexímus, quae alia paratione adhibita accidere solent, aut si materias sumseris non genuinas, nec satis puras.

(*b*) Digere iterum, interdum agitando per nychthemerum et exprime. Liquores obtenti et mixti, decantatione et colatione depurati, in balneo vaporis, sub continua agitatione, ad massam pilularum evaporent.

(*c*) Tum liquorem decantatum novae destillationi subjice, quae, prima uncia prodeunte rejecta, lenissimo calore ad siccum continuetur. Tandem in lagunculis plane replendis et bene obturandis loco frigido serva.

3. Parse fully:—

"Ipse trahit, cursuque amens ad limina tendit."

4. Translate into Latin:—

(*a*) The consul had already left Rome with his army, and was on his march into Etruria, when he received the tidings of this outrage.

(*b*) Pompey stood like the oak conspicuous in some fertile field, bearing the trophies of many triumphs, and venerated by the memories of the past, but Caesar fell upon him like the lightning of Jove.

ENGLISH.

1. Parse fully:—

"Where's the coward that would not dare
To fight for such a land?"

2. Write a short essay on *one* of the following subjects:—

(*a*) Japan.
(*b*) Intemperance.
(*c*) "Science is the handmaid of invention."

ARITHMETIC.

1. Find the cost of painting the walls of a schoolroom 80 feet long, 30 feet wide, and 15 feet high, at 3*d*. per square yard, allowing two coats for the upper part, and three coats for a dado 3 feet 6 inches high.

2. Express $2\frac{3}{8}$ of 3 yards 1 foot 6 inches as the decimal of $2\frac{11}{19}$ of 1 mile 6 furlongs 10 poles.

3. One-fourth of a farm of 170 hectares, which cost 500,055 francs, is sold at 3,500 francs per hectare, $\frac{7}{10}$ of it at 2,800 francs per hectare, and the remainder at prime cost. Find, approximately, in English money, the gain or loss.

FRENCH.

1. Translate into English:—

Les Stuarts auraient-ils pu régner après la Restauration? Très facilement, en faisant ce que fit Guillaume en Angleterre, ce qu'a fait Louis XVIII. en France: en donnant une charte; en acceptant de la Révolution ce qu'elle avait de bon, d'invincible, ce qui était accompli dans les esprits et dans le siècle, ce qui était terminé dans les mœurs, ce qu'on ne pouvait essayer de détruire sans remonter violemment les âges, sans imprimer à la société un mouvement rétrograde, sans bouleverser de nouveau la nation. Les révolutions qui arrivent chez les peuples dans le sens naturel, c'est-à-dire dans le sens de la marche progressive du temps, peuvent être terribles, mais elles sont durables.

2. Translate into French:—

On the second of September, 1666, about ten o'clock in the evening, began the great fire. It broke out in Fish Street. On the third, the fire continuing, I took a coach after dinner with my wife and son, and went to Southwark on the other side of the river. We beheld a dismal spectacle; all the houses from the bridge to Cheapside were consumed, and we returned wondering what would become of the rest.

GERMAN.

1. Translate into English:—

Karl der Grosse war ein echt deutscher Mann, von starkem Körperbau und schlanker Gestalt. Er hatte eine hohe, klare Stirn und überaus grosse, lebendige Augen, die dem Freunde und Hülfebittenden freundlich, dem Feinde aber furchtbar leuchteten. In früher Jugend übte er seine Körperkraft und wurde der beste Fechter und beste Schwimmer. Sein Hauptvergnügen war die Jagd, und wenn er dem Hofe ein Fest bereiten wollte, wurde eine grosse Jagd angestellt. Alles setzte sich zu Pferde, und nun ging es unter dem Klange der Hörner und dem Gebelle unzähliger Hunde in lärmendem Jubel hinaus in die Wälder, wo die Blüte der jungen Edelleute sich dann durch Mut und Geschicklichkeit einander zu übertreffen suchte. Karl, mitten unter ihnen, bestand manchen heissen Kampf mit wilden Ebern, Bären, u.s.w. Im Essen und Trinken war er sehr mässig. Wenn er mit den Seinigen allein speisste, so kamen nur vier Schüsseln auf den Tisch. Sein Schlaf war nur kurz. Selbst des Nachts stand er mehrmals von seinem Lager auf, um sich in der in seiner Jugend versäumten Schreibkunst zu üben, oder er betete, oder er betrachtete mit Ehrfurcht und Bewunderung den gestirnten Himmel.

2. Translate into German:—

When Ulysses awoke, he did not know his country again. He looked about him, and complained of the men who had promised to bring him to his home, and had now left him alone in a strange place. Then there came a young shepherd, who was beautifully dressed like the son of a king, and Ulysses asked him for the name of the country. The shepherd seemed astonished at this question. "I had thought," said he, "that everybody knew our land. It is called Ithaca."

CHEMISTRY.

1. How is hydrogen peroxide prepared? What are its physical and chemical properties?

2. How would you distinguish between metals and non-metals? Classify the following, giving your reasons:—Hydrogen, phosphorus, arsenium, and zinc.

PHARMACY.

1. What is meant by incompatibility? Give three typical examples.

2. Given the proper quantities of substances, how would you prepare syr. ferri iodidi, P.B.? How would you take its specific gravity?

BOTANY.

1. Give a short account of what you know about chlorophyll.

2. Name and describe briefly four climbing plants you are acquainted with.

EXAMINATIONS IN EDINBURGH.

THE Board of Examiners for Scotland concluded their July meeting at 36 York Place, Edinburgh, on Monday, July 9, having during the session examined three Major candidates, of whom one passed, and 211 Minor candidates, of whom 136 failed, and 75 passed. Subjoined are the names of the successful candidates:—

PHARMACEUTICAL CHEMIST.

Irvine, Peter, Glasgow.

CHEMISTS AND DRUGGISTS.

Ambler, Arthur, Keighley
Anderson, Hugh R., Edinburgh
Beecroft, Frederick, Edinburgh
Blyth, Charlotte P. P., Dysart
Briggs, Robert S., Newcastle
Brown, Neilson, Loanhead
Buchanan, John Gordon, Ayr
Cammell, Horace, Edinburgh
Carruthers, Matthew, Buckie
Clegg, Thomas C., Edinburgh
Craig, John Ross, Edinburgh
Crawford, James, Glasgow
Cusin, Thomas, Kirkcaldy
Deans, Alfred, Edinburgh
Dick, David M., Edinburgh
Drynan, John F., Glasgow
Dunlop, Thomas J., Stalybridge
Dyet, Gilbert, Stonehouse
Evans, James L., Coatbridge
Ferry, Thomas R., Wallsend
Flett, William W., Glasgow
Foote, James M., Edinburgh
Forrester, Andrew, Edinburgh
Gamlen, Percy H., Edinburgh
Garvie, W. C. H., Glasgow
Geddes, Chas. S., Aberchirder
Graham, Robert, Kirkintilloch
Gray, Thomas E., Glasgow
Hall, James Muir, Glasgow
Halliday, Sydney, Edinburgh
Harvey, James D., Edinburgh
Hershberg, Alfred, Edinburgh
Hetherington, Jas., Edinburgh
Hicks, George, Glasgow
Innes, Joseph G., Aberdeen
Kennedy, Jane, Hawick
Kermath, Jessie, St. Andrews
Lee, George A. M., Edinburgh
McDonald, Charles, Earlston
Machray, George, Aberdeen
Mack, George, Edinburgh
Meldrum, William, Edinburgh
Michelson, Eleazer, Stockton
Mitchell, James, Edinburgh
Mitchell, William, Edinburgh
Morrison, William, Edinburgh
Nicol, Simon Soutar, Govan
Park, James, Denholm
Parker, William S., Edinburgh
Parry, John Robert, Edinburgh
Paterson, Robert S., Bonnyrigg
Patterson, John W., Newcastle
Peacock, Frederick, Liverpool
Philp, George, Dunfermline
Ramsay, William, Edinburgh
Robb, Helen, Glasgow
Robertson, Charles, Edinburgh
Ross, John, Edinburgh
Russell, James, Paisley
Russell, William A., Glasgow
Royle, James, Wilmslow
Sharp, John, Edinburgh
Sproat, Samuel C., Edinburgh
Stewardson, Arthur, Newcastle
Stewart, Francis G., Edinburgh
Taggart, Arthur W., Edinburgh
Tait, Joseph, Edinburgh
Thompson, Harry, Oldham
Thomson, James, Glasgow
Trenwith, Charles C., Bellshill
Whitley, David R., Edinburgh
Whitehead, A., Edinburgh
Williams, Thomas, Edinburgh
Young, Alexander, Glasgow
Young, James Paton, Glasgow

The British Pharmaceutical Conference.

THE papers promised to the Hon. Secretaries number twenty-three, which is about the average, and quite sufficient for one Conference. The following are the titles of the papers:—

1. "Plasters and their Bases." By J. A. Sargent.
2. "Almond Oils and their Substitutes." By W. C. Allen and E. T. Brewis, F.I.C.
3. "Phenol Suppositories." By F. R. Dudderidge, F.C.S.
4. "Mercurous Iodide." By Frederick B. Power, Ph.D.
5. "The Composition of Berberine Phosphate." By Frank Shedden, B.S.C., A.I.C.
6. "Some Observations and Suggestions Relating to the Chemistry of the British Pharmacopœia." By Fredk. B. Power, Ph.D.
7. "Contribution to the Pharmacognosy of Official Strophanthus-seed." By P. E. F. Perrédès.
8. "Ash in Drugs." By C. G. Moor, M.A.
9. "Notes on Opium, Olive Oil, and Saccharin." By Edwin Dowzard, F.C.S.
10. "Viscosity of Essential Oils." By Edwin Dowzard, F.C.S.
11. "British Guiana Copaiba." By E. Wightman Bell, F.C.S.
12. "Copaiba: Its Assay and Tests." By E. Wightman Bell, F.C.S.
13. "Some Pharmaceutical Tinctures." By J. C. McWalter, L.R.C.S.I., L.A.H.I.
14. "Determination of Correct Melting-points." By Thos. Tyrer, F.I.C., and Albert Levy.
15. "Note on Liq. Ferri Perchloridi." By Thos. Tyrer, F.I.C., and Albert Levy.
16. "Turpentine Oil and Terebene." By Chas. T. Tyrer, F.I.C., and Alfred Wertheimer.
17. "Notes on Some Indian Drugs." By W. Mair, F.C.S.
18. "Report on Santalwood Oil." By Ernest J. Parry, B.Sc.
19. "Examination of Commercial Samples of Liquor Ferri Phosphatis c. Quinina et Strychnina." By H. J. Henderson.
20. "The British Pharmacopœia as a Standard for Articles of Commerce." By D. B. Dott, F.R.S.E.
21. "Critical Note on the Official Process for the Determination of Strychnine in Galenical Preparations of Nux Vomica." By E. H. Farr, F.C.S., and R. Wright, F.C.S.
22. "The Pharmaceutical Plants of Jamaica." By Theo. H. Wardleworth.
23. "Laboratory Notes." By F. C. J. Bird.

* * * *

The preparations for entertaining the members of the Conference are in a forward state. The reception on Monday night, July 23, at the Whitehall Rooms, is to be held in the handsome saloon where the annual dinners of the Pharmaceutical Society have been held the last two years. At both the Whitehall Rooms and the garden-party on Tuesday at the Royal Botanical Gardens the accommodation is unlimited, and a large attendance of members and their friends is anticipated and expected.

* * * *

No. 1 book of tickets (10*s.* 6*d.*) admits to the luncheons at the Holborn Restaurant on July 24 and 25, as well as to the garden-party on July 24 and the reception on July 23 at the Hôtel Métropole. These afford opportunities for London members to meet their friends. The ladies will be taken in hand by the Ladies' Committee, over which Mrs. Martindale presides during the sessions of the Conference. The concert and dance for the Wednesday night are being arranged by Mr. J. C. Umney, and we understand that many clever artistes have been engaged.

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A group-photograph is to be taken at the Royal Botanical Gardens on Tuesday, as there is no convenience for taking the usual groups at the luncheon-hour during the Conference sessions.

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The evening of Tuesday is left free for visitors to do what they like with, as it was felt that many of the country members would like to have an opportunity of visiting London theatres and music-halls. Members of the Executive Committee are arranging to entertain parties of twenty on that evening. Mr. J. C. Umney will be pleased to book seats at any theatre, if members will let him know their requirements as early as possible. It is as well to give Mr. Umney a choice of two or three theatres at which to secure seats, as it frequently happens that during the run of a play all the best positions are booked weeks ahead.

* * * *

The following is a list of the performances at the principal London theatres on July 24, as far as can be at present ascertained:—

Avenue	"A Message from Mars"
Comedy	"Pygmalion and Galatea"
Criterion	"Lady Huntworth's Experiment"
Daly's	"San Toy"
Duke of York's ...	(Closed Conference week)
Gaiety	"The Messenger Boy"
Garrick	"Zaza"
Great Queen Street...	"The Private Secretary"
Haymarket	"The School for Scandal"
Her Majesty's ...	"Rip Van Winkle"
Lyceum	"Nance Oldfield" and "The Lyons Mail"
Lyric	"Florodora"
Prince of Wales's ...	(Closed Conference week)
Royal Opera	Performance varies
Royalty	(Closed Conference week)
Savoy	"The Pirates of Penzance"
Shaftesbury	"The Casino Girl"
Strand	"The Brixton Burglary"
Vaudeville	"Kitty Grey"
Wyndham's	"The Liars"

There are also performances at most of the suburban theatres. The lowest price at which seats can be booked is usually 5*s.*

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In regard to the excursion down the Thames on Thursday, July 26, it has been decided not to limit the number to 250 as originally intended, and arrangements have been made to charter a steamer to accommodate those members and friends who cannot find room on the two barges.

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The barges which will be used are two of the college barges from Oxford, and are of such a size that 125 persons can be comfortably entertained on each. The luncheon on board will not be a sit-down meal, but will be substantial enough to keep hunger away till the dinner, which will be provided at Maidenhead.

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It should be noted that July 19 is the last day for receiving applications for No. 2 book of tickets (for the excursion); any tickets remaining over will, after July 19, be charged double rates (one guinea).

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The committee are preparing a small guide for the river-excursion, which will be distributed on board, but nothing has been done in the way of a guide to London—the task is a heavier one than the committee dared to undertake. Many provincial members of the Conference know more about London than Londoners do themselves, but there will be, on the other hand, many to whom the sights and mysteries of London are *terra incognita*. For these there are a number of trustworthy guides to London published, of which the following is a selection:—

Baedeker's London and Environs, 6*s.*
Murray's Handbook to London, 21*s.*
Black's Guide to London, 1*s.*
Ward, Lock & Co.'s Guide to London, 1*s.*
Cook's Handbook for London, 1*s.*
"Tit Bits" Guide to London, 1*s.*

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Provincial members of the Conference travelling on the Midland or Great Western Railways can obtain railway-tickets for the return journey at a fare and a quarter. Mr. W. A. H. Naylor, 38 Southwark Street, S.E., will supply the necessary certificate of membership which has to be given to the booking-clerk at the station where the ticket is taken. Applications for certificates should be accompanied by a stamped addressed envelope.

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The Hon. Local Secretaries, from either of whom books of tickets can be obtained, are Mr. W. Warren, 24 Russell Street, Covent Garden, W.C., and Mr. H. Cracknell, 17 Craven Road, W. Mr. J. C. Umney, who will be pleased to book theatre-seats for provincial members, should be addressed at 48–50 Southwark Street, S.E.

War Notes.

TRANSVAAL AND O.R.C. SUBSCRIBERS.—Any subscribers of THE CHEMIST AND DRUGGIST whose places of business were in the Transvaal and Orange River Colony, and who have not received their copies since the war broke out, are requested to send their names and addresses to the Publisher, 42 Cannon Street, London, E.C. We have reserved their copies of THE CHEMIST AND DRUGGIST and copies of the DIARY, and these we shall send to them as soon as they inform us of their addresses.

MR. PERCY R. E. JOSEPHS, younger son of Mr. Philip Josephs, Old Street E.C., and a member of the London Rifle Brigade, sailed on Thursday in the *Nestermore*, with a contingent of the C.I.V., who are going right to the front (Pretoria) to strengthen that corps. Mr. Josephs volunteered at an earlier stage of the war, but he was refused as he was only 19 then. He has since got into the twenties. These drafts of men going forward are a rather disquieting feature about the present position of hostilities in the Transvaal.

MR. PERCY R. E. JOSEPHS.

CIVIL-COMPOUNDER'S EXPERIENCES.—Mr. S. R Davidson, chemist and druggist, a native of Cullen, N.B., who has now been promoted to the rank of sergeant in the R.A.M.C., has sent his experiences of the fighting with General Warren's forces against the rebels in Western Cape Colony:—

General Warren's Brigade,
Campbell, Cape Colony, June 9, 1900.

At daybreak on May 30, I was awakened by the sound of rifle fire, and jumped up to find the camp in a state of excitement and every man standing to arms, the report being that the camp was surrounded by rebels. The bullets began to fall all round us, and at the same time the horses of the Yeomanry went thundering past our ambulance-waggon, the whole lot having stampeded.

Well, the order came to get one of the waggons inspanned, and as I was in charge of it I had to go and see it done. I hope never to be in such a hot corner again. About 150 of the enemy had lodged in the garden not 500 yards from us, and were blazing away as hard as they could, and we were surrounded on the outskirts of the camp by them as well. The mules were got inspanned all right, when Major McLaughlan, who was with us, told me to come along with him. We had just got down to the cattle kraal, where the "Duke's" Maxim was being placed in position, when the shower of bullets came so thick that the Major and I took shelter behind the stone wall of the kraal, and had not been there two minutes when an orderly came rushing down from the General's house saying that Lieutenant Paton, A.D.C. to the General, had been wounded and asking assistance. Then there was something to do, and I had no more thought of bullets. I ran back to No. 1 waggon for a surgical haversack, and back to the General's house again, dressed the lieutenant's wounds (a shot through the knee), and was kept at it all the time as the wounded were being brought up there one after the other. We had just finished dressing a "Duke's" man, shot through both legs, when our own sergeant-major was carried up shot through the back, and with the stamp of death on his face. We dressed his wound, but knew from the first that there was no hope for him—he died about four hours afterwards. After him came another of our sergeants shot in the ear, and then another shot in the neck When Major McLaughlan saw them he said to me, "For God's sake get behind the house or we will not have a non-com. left." But by this time the Boer fire was slackening, and we saw them retreating from the garden to the open, running as hard as they could. They could have been exterminated by the Maxim if it had not been for one of our loyal (?) scouts crying out that we were firing on our own men and should cease firing. This was practically the finish of the affair—the fifteen-pounders of the Canadians came into action and poured a few shells into the retreating Boers, and all was still again. Then our work of collecting the dead and wounded began, and never shall I forget that day's work. We had between fifty and sixty casualties; eighteen were buried that afternoon, and four the following day, and thirty lay wounded. It was a gruesome sight to see these young fellows of the Yeomanry and Paget's Horse lying dead on the field, all in the prime of life and of splendid physique. All the wounded were taken to Faber's farmhouse, and there we were employed assisting the doctors in amputations and dressings the whole day. That day passed like magic—the hours seemed minutes; for, after all was finished, we were quite surprised that the sun had begun to set. Our sergeant-major being killed and two sergeants being wounded, I had to take charge of the company the following day, and I am now a sergeant, and have my work cut out for me. We are fourteen strong, have seven carts, fifteen natives, four horses, and fifty-nine mules, for which I have to draw rations daily and generally boss about, besides doing all the dispensing, so you may imagine that I have my hands full. However I am getting on swimmingly, and feeling in splendid health.

TROOPER VIGIS, son of Mr. Lewis Vigis, of Queen Square, Bath, whose narrow escape from death at Wepener we recorded in the *C. & D.* of June 16, writes his experiences, which appear to have been particularly rough, after leaving hospital at Mafeteng on the Basuto border:—

Aliwal North, Cape Colony.

The journey from Mafeteng took nine days. It is a time I think I shall never forget; it was bitterly cold, and it rained three nights. We slept in wet blankets, so you can quite imagine that did not do us much good, particularly as we slept every night in the open. Needless to say I caught a terrible cold, which did not improve the cough I already had, and I have been in bed ever since. My hand is rather shaky, so that I cannot write up to my usual standard (which is bad at the best). The doctor seems quite upset that I am not dead. You know I told you that they measured where the bullet went in. Since I have been here I have had three doctors to see it. I believe the bullet must have changed course in the body, for they say it ought to have hit the base of the heart, so I suppose I had a rather narrow escape. Unfortunately, they will not let me come home, but I am going to East London for three months or more on Tuesday, June 5. They say the climate is much better for me. Needless to say I do not agree with them, but as I had three doctors to decide for me I suppose I must be content; but I would sooner have come home, as you may guess, and have taken my chances about the climate.

Trade-Marks Applied For.

Objections to the registration of any of the undermentioned applications should be lodged with C. N. Dalton, Esq., C.B. Comptroller-General of Patents, Designs, and Trade-marks, at the Patent Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned. The objection must be stated on Trade-marks Form J, cost 1*l.*, obtainable through any money-order office.

(*From the "Trade-marks Journal," July* 4, 1900.)

"RANEE," portrait and device; for chemical substances. By F. W. Berk & Co. (Limited), 1 Fenchurch Avenue, E.C. 229,590.

"VERMITE" and device of sailing-ship; for insect-powder. By Hudson, Vernon & Co., 55 Torrington Square, W.C. 221,151.

"SALAPODINE"; for a gout-medicine. By S. J. Bradburn, 51 Ayres Road, Old Trafford, Manchester. 229,160.

CHAMOMILE TONIC and signature; for a medicine. By Joseph Higham & Co., 122 Portland Street, Manchester. 230,392.

"F. J. LONGDIN" as signature; for patent medicines. By F. J. Longdin, 25 Thoresby Road, Sheffield. 230,937.

"NUTRABIN"; for chemical substances. By Fletcher, Fletcher & Co., 469 Holloway Road, N. 231,027.

"PHOSVIS"; for chemical substances. By Edward Hall, 6 Foster Lane, E.C. 231,124.

"IXIDAMA"; for chemical substances. By Burgoyne, Burbidges & Co. 12 and 16 Coleman Street, E.C. 231,138.

"D'OREZZA" and device and wording on label; for natural mineral-water. By C. Luiggi, 3 Rue Rossini, Paris. 228,601.

An ivy-leaf as device; for perfumery and toilet articles. By G. W. Goodwin & Son, Ordsall Lane, Manchester. 223,929.

"REXIDO" and wording; for teeth preparation. By Parkes & Co. 35 Market Street, Hanley, Staffs. 229,298.

"RO-TI-SHA"; for toilet soap and perfumery. By Price's Patent Candle Company (Limited), 31 Threadneedle Street, E.C. 230,834.

Corner for Students.

THE EDINBURGH MINOR.

THREE months ago we printed a description of the Minor examination in London from the pen of a successful lady candidate. We now have pleasure in printing a description of the Edinburgh examination written by one of the four ladies who passed:—

Punctually at 10 A.M. on the morning of June 27 I found myself at 36 York Place, and the feeling of strangeness to the surroundings soon wore off after a few minutes in the company of other four ladies who, like myself, wished to tempt fortune by trying the Minor. Three of us were fresh to the situation, the other two knew the ropes from past experience, and their hints were welcome.

Sent first to chemistry, I was placed under Mr. Jack. I have no fault to find with him, or, indeed, any of the examiners, for all were exceedingly kind; but I could sometimes have wished him further off, as his almost constant supervision had the reverse of a sedative effect on my nerves. All through that day I was in a very excited condition, and fear that I created a rather poor impression on the examiners. Asked to take the sp. gr. of a liquid, my results by good fortune came out accurately; and the estimation, which came next, of a very weak solution of iodine was also practically correct. I then got a double salt, which I found without difficulty to consist of bismuth nitrate and potassium chloride. In the afternoon I had Mr. Boa in dispensing, who handed me the following paper:—

Make a few glycerin suppositories. (Capacity of mould about 60 minims.)

Make 1 oz. glycerinum amyli.

Pot. brom.	ʒij.
Syr. zingib.	℥j.
Inf. lupuli ad	℥vj.

M.

Sig.: A sixth part at bedtime.

Pulv. rhei	gr. ij.
Pulv. sodæ bicarb.	gr. x.
Pulv. aromat....	gr. j.

M. Ft. pulv. Mitte x.

Pulv. aloes	gr. j.
Pulv. zingiberis	gr. j.
Creosoti	gtt. ss.

M. Ft. pil. j.

Sig.: Take at bedtime. Mitte viij.

I began badly, and wasted an hour over the suppositories, but ultimately they came out all right. I had forgotten that glycerin of starch could not be made on a water-bath, and wasted time there also, but remembered that the naked flame was necessary, and this, too, came out nicely. The other things were quite simple, and the pills were all right, but in my nervousness I wrote on the label "Take at bedtime," instead of "Take one at bedtime." I weighed the creosote, making allowance for the sp. gr., and the examiner seemed satisfied on the whole with my work.

On the following Thursday I appeared for the second day's work, and was sent first to prescription-reading. Here a very gentlemanly examiner, who I afterwards found was Mr. Lunan, took me in hand. I had several prescriptions to read—nothing very difficult, however, but a few overdoses occurred. Then I was asked a large number of doses, and was thankful not to miss one. Three prescriptions were given me to translate into full Latin, and these I managed with the exception of the word "treacle," the Latin for which I did not know. The examiner seemed satisfied, and I left him feeling considerably relieved.

I next went to pharmacy, and Mr. Davidson asked me to classify the extracts into solid and liquid, and then into aqueous, spirituous, juice, and so on, and I had to name a number of extracts in each class. He asked full details of how the following were made—cascara, cinchona, ergot, belladonna, and taraxacum—and explanations of each process. He also required the process for the standardisation of cinchona, and this from former practice was quite familiar to me. The strength of all standardised preparations was required, and all the belladonna preparations. Percolation was asked about, and repercolation had to be described. What were its advantages? and what was the effect of heat on repercolation? I could not conceive what the last question meant, but I hazarded the answer that heat would drive off the spirit. The evaporation of extracts was next taken up. What were the circumstances which influenced it? I mentioned temperature and extent of surface. Do you ever have evaporation without heat? Yes, and gave as an instance snow and ice evaporating in winter. "That's not a B.P. example," he said, rather testily. "I beg pardon," I replied, "but you did not ask for a B.P. example." I then said that evaporation *in vacuo* was carried on at a low temperature. He next asked a definition of sublimation and B.P. examples. I gave camphor, iodine, and sulphur. What was camphor? I proceeded to give the method of its production; but he said "No, no, what *is* camphor?" and he seemed quite happy when I said camphor was a stearoptene. What is iodine, and how is it obtained? I told him it was got from kelp, but he wanted the commercial source, and I said sodium iodate. What was the difference between flowers of sulphur and precipitated sulphur, and how was the latter prepared? and I told him with hydrochloric acid. Could sulphuric acid not be used? "Yes," I replied, "if you want to cheat the public."

This finished pharmacy, and I was next sent to botany, where the examiner handed me a fruit, and said "What is that?" I said "A strawberry"; whereupon he remarked that this was an examination in botany, and he did not want to have popular names. I then told him it was a fleshy thalamus covered with achenes. How did I know the achenes were not seeds? "Because of the remains of the style." I was then told to dissect and describe the parts of a rose, and compare the fruit of a rose with that of a strawberry. I was next asked to refer several plants to class and sub-class. The first was *Scrophulariaceæ*. He said it was correct, and told me it was not in the syllabus, and I would have been justified in complaining. The others were *Solanaceæ*. I was then shown aconite, belladonna, and cochlearia. How did I know the first was aconite? Because I had seen it every day for a month, I said. Candidates often called it conium: how did I know it was not conium? I told him the absence of the spotted stem and shape of leaves. Shown a mushroom, I told him it was a saprophyte, and was asked to tell all about it—how it lived, what its food was, and how it reproduced itself—and my explanations seemed satisfactory. What was chlorophyll? Green colouring-matter. How did it exist in the plant? To this I gave a wrong answer, and he asked me where I had seen that. I said, "Lowson's 'Botany.'" "Well," he said, "Lowson was once an assistant of mine, and he is a very clever botanist; but I must look up his book, and if I find he said that I shall have to write and tell him that he knows nothing about it." By this time I recollected myself, and managed to give the correct answer, so that I hope Lowson will be spared the castigation. The functions of chlorophyll were asked, and why plants that grew in shady places differed in colour from those that had plenty of light. This concluded an exceedingly pleasant examination, during which the examiner had been most agreeable, and so different from my preconceived ideas, that on leaving him I said, "Excuse me, but are you Professor Balfour?" "Yes," he said, "I am that dreadful man. I know I have a terrible reputation among the candidates," and enjoyed a hearty laugh.

Materia medica came next, and here Mr. Fraser gave me a very stiff examination—not the walk-over that some candidates said they had been getting. Shown a large number of roots, leaves, gums, resins, &c., I was asked the sources, natural orders, and habitats of nearly all, and the percentage of active principles in all the more potent drugs. What was aloin? How obtained? Percentage in aloes? How was aloes collected commercially? How was guaiacum obtained? How was strychnine separated from brucine commercially? Difference between belladonna and stramonium? Tests for strophanthus? Varieties of strophanthus? What was odour of Siam benzoin due to? How much benzoic acid was there in it? And so on. I was also shown a box of mixed drugs, all of which I managed to identify, and had the satisfaction of being told that I had done very well.

Chemistry was my last subject, and here I had Dr. Dobbin, who had the Government Inspector beside him—a fact that did not make me any happier. Asked how I would separate chlorides, bromides, and iodides in solution, I told him, and mentioned, among others, the chromyl-chloride test. How could I tell the brown vapour was not bromine? By passing it into water and decomposing it, and proving Cr and Cl. Asked to give formula of chromyl chloride, I made a mistake, and after this I had to give equations and formulæ for everything, which worried me dreadfully, as equation-writing was my weakest point. Asked about phosphorus, phosphoric acid, ortho-, pyro-, and meta-phosphates, I made such a mess of the equations that I began to feel that all was over. However, things looked more cheerful when he turned to organic chemistry. I was quite at home here, and felt quite disgusted when, after a few questions on benzene, he told me to go, because I knew I could have redeemed myself if I got the chance. A few minutes later I had the pleasure of hearing Mr. Boa say that I had got through with some marks to spare, and it was with some difficulty that I could write my name. What made the satisfaction all the greater was that all the four ladies who got through the first day also passed the second. I may just add that, though the greatest consideration and kindness was shown by all the examiners, I would not like to face the ordeal again. The strain of two days so close together was very great, and it would be a great boon were an interval allowed between them.

Scientific Progress.

A New Indicator.—According to Wolff (*L'Union Pharmaceutique*, 1900, 254) ferric salicylate dissolved in a solution of sodium salicylate forms a valuable indicator in acidimetry, being especially useful in the case of boric acid. A solution of a borate, rendered acid with sulphuric acid and neutralised by soda in the presence of this indicator, gives a sharp change from violet to orange directly the acid is completely neutralised. The free boric acid is then titrated with phenolphthalein as an indicator.

New Atomic Weight Determinations.—Clarke has redetermined, with every possible precaution, the atomic weights of cerium, palladium, and tungsten. The values, compared with those of previous determinations, are as follows:—

—	Latest	Previous
Cerium	138·00	138·30
Palladium	106·20	105·56
Tungsten	182·60	183·43

—*Zeit. f. angew. Chem.*, 1900, 163

The Analysis of Water.—Some interesting researches on the question of contamination of water, and the connection between this and disease, have just been published by Causse (*Comptes Rendus*, 1900, 579). He states that contaminated water, which was known beyond doubt to have been responsible for the outbreak of typhoid fever, when carefully examined was found to contain cystine, which was probably in combination with iron. To test for this body the author recommends using a solution of sodium *p*-diazobenzene-sulphonate mercuric chloride. This gives a yellow colour with very minute traces of cystine, which is reduced, but not discharged, by a trace of sulphurous acid. The author claims that this test is more delicate than a bacteriological examination, as no typhoid bacilli could be isolated, although there were numerous colonies which liquefy gelatin present, probably being those of *Bacterium termo*.

A New Constituent of Rose Oil.—Soden and Rojahn have discovered a new alcoholic constituent in German oil of roses. It was first discovered in the residual waters after distilling the rose-water, and in the rose-water itself. About 800 kilos. of the residual water was extracted with ether, and the resulting oil was found to weigh 200 grammes. This had a sp. gr. of 1·014 at 15°, and contained some free acids, phenols, and other bodies not identified. The oil was shaken with 5-per-cent. soda solution to absorb the acids and phenols, and the purified oil—amounting to 80 per cent.—was fractionated. The portion passing over at 218·5°–219° had a sp. gr. 1·024 at 15°, and on analysis gave figures exactly agreeing with the formula $C_8H_{10}O$. The alcohol, therefore, appeared to be phenyl-ethyl alcohol. This was confirmed by the preparation of this body artificially, when the properties of both compounds were found to be identical; and by oxidation, when the new alcohol was found to yield phenyl-acetic acid. An examination of the pure rose-water and the oil showed that this compound was also present in both of these. (*Berichte* 1900, 1720.)

The Alkaloids of Anagyris Fœtida.—The current issue of the *Archiv. d. Pharm.* (1900, 238) is largely devoted to a^t series of alkaloidal papers by Schmidt and several of his pupils at the Marburg Laboratory. Dealing with the seeds of *Anagyris fœtida*, one of the *Papilionaceæ* indigenous to Southern France, Algiers, and the Mediterranean littoral, the previous work on the alkaloidal bodies present is ably reviewed. The two chief points of the past work recorded are Reale's formula for anagyrine, $C_{11}H_{54}NO_5$, and that of Hardy and Gallois, $C_{14}H_{18}N_2O_2$. Partheil is responsible for the statement that cytisine was also present in the seeds. Commercial anagyrine hydrobromide appears to contain both bases. Schmidt's pupils, Klostermann and Litterscheid, have prepared pure specimens of the free base anagyrine, and have much evidence to show that it is represented by the formula $C_{15}H_{22}N_2O$. This shows a difference of C_4H_8 from the formula of cytisine, $C_{11}H_{14}N_2O$, and it was suggested that anagyrine was butyl-cytisine. Condensations of cytisine were attempted with the halogen compounds of the isomeric butyls, but in no case was sufficient butyl-cytisine obtained to determine whether it was identical with anagyrine or not. Numerous well-defined crystalline compounds of the base were prepared, the following being the most characteristic:—

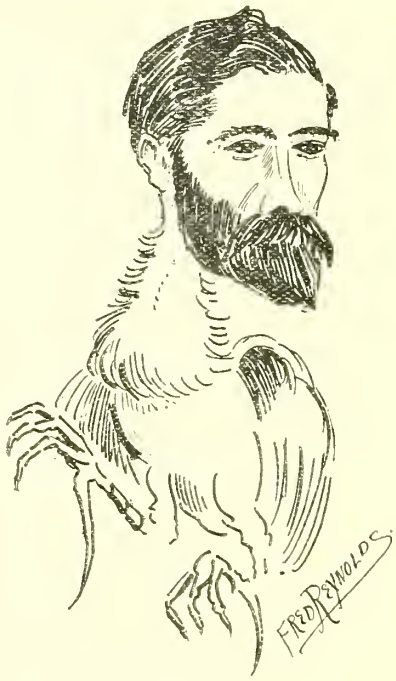
	M.-p.
Anagyrine gold chloride, $C_{15}H_{22}N_2O.HAuCl_4$	209°
Anagyrine platinum chloride, $C_{15}H_{22}N_2O.(HCl)_2PtCl_4$ ...	—
Anagyrine mercury chloride, $C_{15}H_{22}N_2O.HCl.HgCl_2$ ...	225°
Anagyrine hydrochloride, $C_{15}H_{22}N_2O.HCl + H_2O$	—

Numerous other well-defined compounds and derivatives were prepared and described, for details of which reference must be made to the original papers. The action of phenyl isothiocyanate on cytisine, carpaine, and conhydrine forms the subject of a separate paper by Litterscheid. He has succeeded in preparing phenyl-thiourea compounds of these three alkaloids in a crystalline condition, of the general formula—

$$S:C\begin{cases} N:R \\ NH.C_6H_5 \end{cases}$$

These bodies form an interesting addition to the series of which the coniine compound (*Berichte*, 17, 3041) was hitherto the best known.

The Pharmaceutical Aviary.



The Pata Bird.

This young bird, which has a good lot of Welsh game-cock about it, is never happy unless it is saying things about the other birds, and trying to get them all to caw together and to secure the best seed. It especially tries to help the weak and thin birds. It will not touch food itself unless it is stamped with the letters P.A.T.A. It has beautiful black glossy feathers on its head and neck. It knows all about figures and things, and can knock any other bird out in no time, because it caws so beautifully. It is known all over the country because it is such a strong flier. Unkind, rude birds have nicknamed it the "Svengali" bird, because it trilbies so. The store-bird is its greatest enemy, and it has been known to fly at it and peck it dreadfully, but lately it has kept its eye on the analytical birds, and tears to pieces points of law with them and legal birds. It now has a square perch in the centre of the aviary, and is a terror to the older birds round it because of its daring flights.

P. O. DISINFECTANTS.—It is suggested in a Calcutta paper that the Post Office should undertake to distribute disinfectants amongst the natives in the same manner as it does the tiny packets of quinine, the sale of which, it says, has been extensive and beneficial.

A LOVING-CUP.—The Alumni Association of the New York College of Pharmacy, with a large number of friends, had its annual outing at Donnelly's Grove, College Point, on June 13. The feature of the occasion was the presentation of a handsome silver loving-cup to the Alumni by the William S. Merrell Chemical Company, of Cincinnati.

Observations and Reflections.

By Xrayser.

"You have almost kept me waiting!" exclaimed the astonished Louis XIV. to his coachman, who drove up for the monarch at the exact moment for which he had been ordered. It must have been the fear of some such rebuke from his Whitehall "co-ordinate" that induced the President of the Pharmaceutical Society to insist so urgently on precipitate submission to the Privy Council's objectionable edict concerning carbolic acid. His two most experienced predecessors in the chair appealed to him for at least a month's delay for consideration, and the desirability of at least discussing the proposal with the Department was urged by some of those even who voted for prompt acceptance of the Privy Council's scheme. But none of these considerations prevailed. Whitehall may keep the nation waiting for thirty years; but when the good pleasure of their Lordships has been once intimated, a single month's postponement is not to be thought of.

* * * *

Carbolic Acid first appeared as a "cause of death" in the Registrar-General's report for the year 1866. It began with a record of three accidental deaths in that year. Two others followed in 1867, and in 1868 seven accidental deaths and one suicide were debited to the coming poison. As the substance came into general use, and the facility of getting it became known, accidents from its use grew more numerous, and suicides by it increased alarmingly. In the five years 1868–72 the accidental deaths from carbolic acid numbered 53 and the suicides 22. In the next five years (1873–77) the figures were respectively 92 and 53. In the quinquennium 1878–82 there were 90 accidental deaths and 108 suicides due to carbolic acid, and from this time the substance became the popular poison. In the five years 1893–97 the accidental deaths due to carbolic acid numbered 176, and the suicides 847. In the last reported year, 1898, there were 37 accidental deaths and 169 suicides attributed to carbolic acid. Truly it was time something was done to check this continuous massacre.

* * * *

The Company-pharmacy Clause looks very like getting through Parliament now. It has cleared the stiffest fence, and though there will be another opportunity of attacking it in the Report stage, the House of Commons is rightly reluctant, especially as the Session nears its close, to overthrow the work of its delegates in the Grand Committees. If the clause should reach the House of Lords, its author will look after its welfare there; and it will require great influence to counteract that of the Lord Chancellor in his own assembly and on a legal question. So far as can be ascertained the Council of the Pharmaceutical Society has not attempted to coach any member of either House, but local secretaries are now informed that "the time has now arrived" (after the discussion in the Grand Committee, be it observed) "when prompt and vigorous measures should be adopted" to oppose the clause; but it does not even yet appear that anything worth calling a lead is to be given them from headquarters.

* * * *

The Indifference of the Council to the struggle which evidently interests the trade it aims to represent is assuredly a curious phenomenon. Five years ago, when the Departmental Committee of the Board of Trade first considered the reform of company law, Mr. Carteighe submitted to them the case against companies formed to evade the Pharmacy Act. It was about the best piece of work Mr. Carteighe did for pharmacy. Then we prayed to be heard; then we pressed for some legislation to remedy the grievance which we pretended we suffered from. The Committee refused our request, but the Lord Chancellor agreed with us and offered us legislation. And from that day to this we have been shivering at the thought of the opportunity which the highest legal authority of the realm had opened to us. The Lord Chancellor's propositions have been before the Council of the Pharmaceutical Society for two years—they have been inserted in Bills and struck out of them, they have been discussed and denounced and amended at scores of chemists' meetings, Mr. Ritchie testifies to the intense interest which chemists and druggists have taken in them—and yet no member of either House of Parliament has been interviewed officially on the subject, no amendment has been formulated, no intelligible reason for opposition to the Clause has been drafted, and, whatever may occur in Parliament, there is no hope now that pharmacy, keenly interested as it is, will be authoritatively represented there.

* * * *

Individual Effort on the part of those who think the clause may be usefully amended should now supplement official representation, or, if the word be preferred, countermine it. The recent election of the Pharmaceutical Council gave reason to believe that a majority of the voters favoured a policy of negotiation. Let this majority now demonstrate its strength. Let those chemists who choose to do so follow the course recommended by the Council; but let the Lord Chancellor, Mr. Ritchie, and members of Parliament generally get at least as many letters from chemists who are of the other way of thinking. The Lord Chancellor is the most hopeful legislator to write to. Chemists who have facts to state or arguments to advance should write to him—to the Right Honourable the Lord Chancellor of England, House of Lords, London, S.W. There is no occasion to write angrily; indeed, it would be foolish to do so. But Lord Halsbury ought to be made acquainted with the strong objections which chemists entertain to his clause as it stands, and get an idea of the direction in which they would like to have it amended. The injustice of the surrender to companies of personal titles earned after examinations, and the necessity, if *bonâ-fide* qualified control of chemists' shops is really desired, of requiring a qualified directorate, are the two points to be insisted upon. Mr. Keen last week puts the argument effectively. Let all companies practising pharmacy put themselves into the position of those firms among ourselves who have taken advantage of the limited-liability principle, and we can have no reasonable objection to them.

* * * *

Pharmaceutical Research is on the top of the wave just now. As with Job when he got through his troubles, all his friends brought him a piece of money; so now, when we are told that the Pharmaceutical Council have begun research-work in real earnest, we are having offers of assistance from three or four other quarters at once. The President of the British Pharmaceutical Conference with the wholesale trade at his back, wants to endow a research scholar. Mr. Butt generously bids a still higher figure for another, and, what strikes me as the most remarkable event of all, we have in last week's *C. & D.* a record of pharmaceutical research which has been carried out "in Messrs. Boots' laboratory." It has been alleged as one of the arguments against company-pharmacy that its development means the destruction in the same ratio of all interest in the art of pharmacy except that which pays directly; but the "Boots' laboratory" research goes a little way towards refuting that argument.

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Editorial Comments.

Occasional Poisons.

Two members of the Pharmaceutical Council assure us that our interpretation of Section 2 of the Pharmacy Act is wrong, in so far as we have said that the Pharmaceutical and Privy Councils have power to *add* poisons to the schedule, but none to *except* any peculiar packing of such poison. One of the councillors mentions that the tincture and all liquid vesicating preparations of cantharides is virtually an exception of other

vesicating preparations of the same poison. True, but it is not parallel to the carbolic case. Another councillor triumphantly points to "oil of bitter almonds unless deprived of prussic acid," which happens, however, to be in the original schedule. It is competent for the Legislature to do what it likes, and it was careful to define exemptions in regard to the sale of poisons, all of which are mentioned in Section 17. Last week's resolution is really an extension of that section's exemptions, and it is this that we regard as *ultra vires*. It is against the sale of scheduled articles by unskilful persons that the Act is directed, yet, determined to make some show of consistency in their obstinate refusal to the last to fulfil their manifest statutory duty, the Privy Council has devised the compromise by which carbolic acid is to be "poison" when sold by a chemist, and "poisonous" when the oilman or grocer hands it over like a packet of cocoa.

It must be admitted that the formula drafted by the Privy Council to accomplish its purpose is strikingly ingenious. That Department has no more power than the meanest subject of the Queen to modify a line of an Act of Parliament. The powers of the Pharmaceutical Council and the Privy Council are clearly defined. They cannot, for instance, enact directly that carbolic acid, though scheduled, may be sold in a certain form by others than chemists. They cannot require that when sold in such circumstances it shall be labelled "Poisonous." But without any formal Act of Parliament to such an effect the Privy Council has cleverly contrived that these conditions shall be established, and has given the force of law to them—at least, it is most unlikely that the resolution will ever be disputed. The resolution provides that a closed vessel of a preparation of carbolic acid prepared for agricultural or horticultural purposes if labelled in a certain manner shall not be carbolic acid within the meaning of the Act. If it should not be labelled as specified, if it should not be in a closed vessel, if it should not have been prepared for agricultural or horticultural purposes, it is then carbolic acid within the meaning of the Act, and its sale by unregistered persons will become illegal, and the seller will be subject to a fine.

But if it is so essential that the sale of carbolic acid prepared for agricultural and horticultural purposes should be left open to everybody, is it not absurd that the sale of all other poisonous weed-killers, and fly-killers, and scab-dressings should be still restricted to chemists and druggists; and is there any reason why the beneficent paregoric, the blessed opiate, and all the rest of the scheduled poisons should not be similarly supplied to the public by grocers in a packed form? Judges, and coroners, and legislators have again and again commended the principle of the Pharmacy Act; it has been adopted in almost every part of the British Empire; and carbolic acid has been scheduled in all the resulting statutes without, so far as we have heard, the smallest shade of inconvenience. But in Great Britain the Act is to be gradually repealed, not by Parliament, but by a few officials at Whitehall who do not exactly approve of it, and our representatives raise no objection which will be heard outside their own circle. The appalling record of "casualties" which carbolic acid has established cannot be disregarded by any humane observers, and we should not dare to advocate ultimate resistance to the Privy Council's proposal even for the sake of the future of the Pharmacy Act. For the arrangement proposed will save lives; hundreds annually it may be. All the same, we cannot help deploring that during all these years the Council of the Pharmaceutical Society has never dared to challenge the Privy Council to answer to Parliament for its neglect of the duty imposed upon it by statute. At any time during the past twenty years a Bill ordering the addition of carbolic acid to the schedule would have been almost sure of success in Parliament if the Council had resolutely used its influence with legislators, medical men, and the country generally in support of such a measure. The representatives of the Privy Council would then have been compelled to properly explain their negligence, and unless they could have done so satisfactorily carbolic acid would have been scheduled as a matter of course. We have repeatedly advocated the adoption of this policy. Even if it had failed pharmacists would at least have discharged the duty laid upon them by the nation, and would have done all they could for the protection of the public.

Now we have a pretty precedent to go upon. An association is being formed for the special purpose of relaxing the statutory conditions for selling poisons. This Association proposes that all scheduled poisons, if contained in closed vessels or sealed packets, may be sold by anybody. The Pharmaceutical and Privy Councils by their resolution have signified their agreement with that policy so far as carbolic acid is concerned. It will be hard to prevent extension of the new principle to all scheduled poisons when the proposal comes definitely before Parliament, as we are assured that it will next Session.

The Last of the "First."

THE Pharmaceutical Preliminary examination has gone out with a "bang." On Tuesday of this week there was a record number of candidates examined—over a thousand, it is officially reported, having paid their fees—indeed, the cash balance (over 7,000*l.*) that the Finance Committee of the Pharmaceutical Council had to deal with this month is itself a record, and Mr. Carteighe actually proposed that the Benevolent Fund should borrow from the General Fund. This happy condition is entirely unprecedented, and is a striking contrast to the straitened circumstances of recent years, as well as remarkable evidence of the productiveness of the examinations. But that is not the subject of this note. Our old friend the First or Preliminary examination can scarcely be allowed to go without a swan's song, for it has been for the good of pharmacy—take it for all in all. Before the passing of the Pharmacy Act, 1868, a system of voluntary examination in arts as evidence of fitness to become a pharmacist was in vogue and encouraged by the Pharmaceutical Society. When the Act came into force, this plan was superseded by the compulsory examination which since October 5, 1869, has been the entrance-gate to the pharmaceutical city. A glance at the first few years' papers shows that the scope of subjects was neither wide nor deep, and that in spite of all this there were bitter expressions indulged in concerning the high ratio of failures. Many and varied were the causes given for this, the chief being the fear that the nature of the subject-matter of the examination was not rightly understood. So it continued for some years. The subjects were then Cæsar, the London Pharm., and Pereira's "Selecta è Prescriptis" as the set Latin books; the arithmetic was foolishly simple; and the English could easily have been polished off in a few minutes by a low-form boy of to-day. The time allowed for the whole examination was three hours. As years rolled on the subjects got harder, and Virgil was added as an alternative, Cæsar being still retained. It was thought that the technical Latin should be abolished, because it was not fair to the schoolboy. And so it was resolved. The examinations in the provinces were conducted by the local secretaries, who had a small allowance made them for hire of rooms for the candidates, but in some cases the examination

was conducted in the gentlemen's own drawing-rooms, under proper supervision and the prescribed rules. Other changes were introduced, the centres of presentation for the trial were reduced in number, and only chief and county towns remained, where the local secretaries conducted the examinations by printed papers prepared in, and sent from, London or Edinburgh by the Society's examiners. Then the College of Preceptors was called in, a little more than twenty years ago, to set the papers and adjudicate the answers. At first candidates who were successful were arranged in order of merit, but that scheme was abolished when the College took the examination over. Another innovation was introduced when the time was extended to four-and-a-half hours in place of three hours, and stress was laid upon the use of the metric system of weights and measures. In more recent years the papers have assumed a tricky aspect (a sign of weakness), but on Tuesday, July 10, all came to an end. In future the responsibility of examining candidates for pharmacy as to fitness in arts will be relegated to other bodies, but the Pharmaceutical Society will retain its lien on "the fit" to the extent of two guineas. In future the candidate for registration under the Pharmacy Act will be required to furnish evidence of a knowledge of Euclid, algebra, and one or more modern languages, together with the subjects previously required. There is no doubt that it will be a great advantage to the pupil and to pharmacy to have a more liberally educated mind upon which to build the pharmaceutical superstructure. We hope all this effort towards higher things will some day have its recompense; at present what little advantages education and examination have conferred upon registered chemists and druggists are being filched under the sanction of those in authority.

The Menthol Mystery.

THIS title most pertinently describes the recent rise in the price of menthol. A fortnight ago there were 200 cases of Kobayashi brand visible in London, and an equal amount in Hamburg. By the end of last week they had disappeared; where they have gone nobody seems to know, but meanwhile the price has advanced by about 20 per cent., and the future of the article seems most uncertain. That is a remark which applies to almost every staple of the drug-market, for as long as people buy their supplies in a hand-to-mouth fashion, and only the few keep an eye upon stocks and adventitious inquiries, so long is it possible to manœuvre "corners" and rush up prices unexpectedly. That appears to be the position of affairs in regard to menthol at the moment. Few in London can say why it has gone up, but the absence of supplies justifies it. How natural is the surprise at the advance is well shown by our Japanese correspondent's letter, printed in our Trade Report this week. Writing on June 14, he says:—

> The market condition of peppermint remains very dull, there being no transactions of importance. Holders generally are anxious to find buyers even at a loss, and are very weak in anticipation of a big crop next season. Moreover, the stock is comparatively large, being estimated at 60,000 catties in Yokohama and Tokio, and 40,000 catties in the producing provinces. At present 4.30 yen per catty for menthol crystals, export quality, 3.75 yen per catty for ordinary quality . . . are quoted nominally.

This report shows not an atom of hope for a rise. The only matter of doubt is how much menthol is included in the 100,000 catties (133,000 lbs.) stated to be in Japan, and that is a point of some importance in view of information which we have received from Hamburg. We learn from a leading dealer there that until ten days ago everybody assumed that there were large stocks of menthol on that market, and the confidence in the article was so great that some dealers had been selling what they did not hold. Suddenly a few important transactions took place, and it was found that there was nothing to speak of in Hamburg, and when orders for the Kobayashi brand were cabled out to Japan the reply promptly came back that there was none to be had. Almost simultaneously orders came from Japan to purchase any available stock on the European market, and the fact has been allowed to leak out that two leading firms in Japan have secured the floating stock of menthol there, and intend to make a price for Europe which is not expected to be a low one. A leading dealer in London, who has personally investigated the matter in Hamburg, assures us that he saw orders from Japan. So far, well—for the speculators. They have still to reckon with the available stocks in their own country and the coming crop. We have recently (*C. & D.*, June 2, page 930) reported that the estimated crop lies between 160,000 and 200,000 catties. As the oil yields at least a third of its weight of menthol (40 per cent. is nearer the mark) there should be about 80,000 lbs. of the crystals to be got from it, which is almost double the average annual export (45,000 lbs.) during the past six years. The speculators have, therefore, either some specially bad information regarding the crops, or they are exceptionally foolhardy. The latter is not an uncommon characteristic out there. The fact must be recognised that the exports of menthol during the sexennium 1894–99 have been out of proportion greater than those of oils. In that period the exports of oils have totalled to 334,050 lbs., and of menthol 269,606 lbs. As every pound of menthol represents at least 1½ lb. of dementholised oil, while a considerable part of oil is sold or exported entire, it follows that the proportion of menthol exported (45 per cent.) is much in excess of the proportion in which exists in the natural products. On that basis it is possible that the large stock of peppermint products actually available in Japan may comprise little menthol. It seems to be in the order of things that oils should accumulate there. This would justify the speculators' movement for a time at least, and that is as far as we can go without degenerating into the doubtfully prophetic.

THE NEW GERMAN PHARMACOPŒIA.

We learn as we go to press that it has been officially decided that the new German Pharmacopœia, being the fourth edition of the "Arzneibuch," will be officially enforced on January 1, 1901. The book has not yet been published, nor will it be until next month. We have on several occasions given particulars of the changes which have been made in the new work, and all that now remains is to examine the details.

"NILSON."

Last week the Chemical Society paid a tribute to another distinguished foreign chemist and deceased honorary member of the Society, by getting Professor Otto Petterson, of Stockholm, to deliver a memorial lecture on the late Professor Nilson. That the compliment was deserved there can be little doubt, for Nilson was a pupil of Berzelius, and it is to him that we owe much of our knowledge of the rare earths and the elements derivable therefrom; but a rather sparse attendance indicated that his work is little known to the Fellows of the Society. Professor Petterson delivered the lecture in excellent English, which was quaint only in respect to pronunciation. He sketched Nilson's life from the time he left his father's farm in Gottland, and described the work which he did in pure chemistry at the University of Upsala, until he was called upon by the Swedish Government to take the direction of the Agricultural Department of the country—a task on which he brought to bear as much patriotic enthusiasm as rare ability in regard to agricultural

chemistry. Exceptional demands on our space this week prevent our publishing a report of the lecture, but this brief mention of the event is due to the Society and the distinguished lecturer who was associated with Nilson in his most important pure-chemistry researches.

THE DANGERS OF EASTON'S SYRUP.

The sale of Easton's syrup has become such an everyday affair with the ordinary pharmacist that a warning as to the dangers of its promiscuous use may not be out of place. Every chemist is aware of the alarming effects induced by overdoses of the syrup; but Dr. Lachlan Grant in the *Lancet* points out that strychnine is a factor in producing cerebral hæmorrhage, and attributes a recent fatal case which came under his notice to the use by a patient of Easton's syrup. The victim, according to the doctor's account, was a man 64 years of age and of apoplectic build. Being "run down" he had been in the habit of dosing himself with Easton's syrup, generally taking it along with some bicarbonate of soda in the form of an effervescing drink. One morning, after taking a stronger dose than usual, he showed signs of cerebral hæmorrhage; the symptoms developed, and he died five days after. Dr. Grant, recalling the action of strychnine, deduces that it was the actual exciting cause of the rupture. Besides being a cardiac tonic, vaso-motor stimulant and so forth, he points out that it is a gastric tonic, is hunger-producing, making the patient eat more, so that the viscera becomes overloaded, thus raising the arterial tension. Moreover, the full physiological effect, due to the so-called cumulative effect of the drug may suddenly develop, and if a cerebral vessel happens to be on the point of rupture, the strychnine may so raise the pressure within the artery as to cause the weakened wall to give way. He therefore urges that older patients, especially those with apoplectic tendencies, "should be warned against drugging themselves promiscuously with tonic syrups and tabloids containing preparations of the seeds of *Strychnos nux-vomica*, remedies which are largely sold by druggists nowadays." By comparison with other prescriptions, he adds, it has been found that strychnine in the form of nux vomica is more used than any other drug whatever in this country.

A CHANCE FOR CHEMISTS.

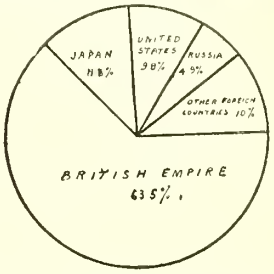
The *Field*, in reply to a correspondent who asks for an "insectifuge" (by which he means something which will keep flies off horses when on the road), says: "An effectual preparation for the above purpose, made by a chemist in Brighton, has often been recommended by us; but the chemist is not now to be found, nor, so far as we know, does anyone else sell the preparation. The liquor produced by boiling walnut-leaves in water has been recommended; but it is not always effectual, nor do we know of anything that is." Another correspondent in the same paper suggests eucalyptus oil. Here is an opportunity for some enterprising chemist and druggist. Flies are a torment to horses for two or three months of the year; a cheap preparation which would answer for three or four hours at a time would bring a small fortune to the proprietor. The *Live-stock Journal* has a paragraph on the same subject, but gives out the walnut-remedy with confidence, directing the leaves to be boiled and then speaking of the "infusion." This mistake is perhaps not so bad as that of the tea-merchant who invited the public, by placard, to taste the "decoction" on the premises.

ARSENICAL SODIUM PHOSPHATE.

Dr. C. R. C. Tichborne, a member of the General Medical Council, contributes to the *Medical Press* the results of some analyses he has recently made of sodium phosphate. Specimens bought at important shops in Dublin were all found to contain arsenic. In three samples the percentage of oxide of arsenic varied from 0·024 to 0·033, or, calculated as arsenate of soda, 0·045 to 0·062. Two samples obtained since have yielded larger proportions of arsenic. Dr. Tichborne says that even sodium phosphate sold as recrystallised at an advanced price is hardly any freer from arsenic than the kind sold for manure. It is recommended that the process indicated by the Pharmacopœia should be discarded, and a salt made from phosphoric acid and pure sodium carbonate alone be used for medicinal purposes. As Dr. Tichborne is a member of the General Medical Council, he will probably see that the Pharmacopœia Committee receive definite instructions in this particular.

CHINESE TRADE.

We reproduce this little diagram from *Commercial Intelligence*. It represents the apportionment of trade with China. Of the total annual trade of China, 69,000,000*l.*, the British Empire has 63·5 per cent. Japan's share is only 11 per cent., while the United States comes third with under 10 per cent., and Russia a modest fourth with less than 5 per cent. As for the other countries who have prominently taken hands in the Chinese game, France and Germany, their trading interest in China, *plus* that of all other nationalities, amounts to only 10 per cent.



TOTAL ANNUAL TRADE OF CHINA
£69 000 000

LOTUS ARABICUS.

Professor W. R. Dunstan and Mr. T. A. Henry, B.Sc., communicated to the Royal Society recently the results of an investigation made as to the poison which occurs in *Lotus arabicus*. The plant, which resembles a vetch, is indigenous to Egypt and Northern Africa, and although the old plant is used as fodder the young plant is highly poisonous to horses, sheep, and goats. When the plant is moistened with water and crushed prussic acid is evolved, which originates from a yellow crystalline glucoside—lotusin. The lotusin under the influence of an enzyme (lotase) is hydrolysed into prussic acid, sugar, and a colouring-matter (lotoflavin). The only other glucoside which furnishes prussic acid is the well-known amygdalin of bitter almonds, which yields the acid under the influence of the enzyme emulsin. The dried plants of *Lotus arabicus* have the odour of new-mown hay, and are extensively used as fodder by the natives, who had learnt to garner only the old plants long before scientific investigation settled the nature of the poison contained in the young plants.

A FIRM OF CATTLE-OIL MANUFACTURERS at Great Grimsby—Messrs. Fields, Williamson & Co.—have devised an ingenious mode of pushing the sale of their goods. They write to somebody in a distant part of the country, telling him that they are anxious to push the sale of their stuff in his district, and will allow him 20 per cent. discount for cash within three months, in addition to the ordinary retail profit. At the same time they enclose an invoice for a case of goods, with the 20-per-cent. discount credited, and a promissory note at three months for the net price, on return of which, signed, the goods will be forwarded. This is naturally tempting to a small trader, and the temptation is heightened by the imposing puffs and testimonials fired off at the agent in prospect. When however, the goods do not sell, and the expiry of the three months' credit is immediately followed by a summons from the Grimsby County Court, and a summary judgment, the gilding quickly disappears from the gingerbread. The mischievous part of this system is that small tradesmen and others are induced to take the goods thus offered to them without knowing anything of the goods themselves or of this particular line of business, and often without the slightest prospect of selling the stuff; and when the payment becomes due they have no chance of defending themselves or explaining the circumstances to a judge, unless by making a journey to Grimsby, it may be from Devonshire. I hear of several cases where the consequences have been disastrous, and anybody who has the opportunity of doing so ought to warn country people against putting their necks into this noose.—*Truth*.

Legal Reports.

High Court Cases.

DOLLY BLUE.

ON Monday the Lord Chancellor and Lords Morris, Davey, Shand, Brampton, and Robertson, sitting in the House of Lords, heard the appeal of Messrs. Wm. Edge & Sons (Limited) against the decision by the Lower Courts in their action against William Gallon & Sons, for selling as Dolly blue an article not of appellants' manufacture. The previous stages of the proceedings have been referred to in the *C. & D.*, and, pending judgment by the House of Lords, we need only recall the fact that Mr. Justice Bruce, before whom the case came, gave judgment for the appellants with costs, on the ground that in his opinion Dolly blue meant the blue manufactured by the appellants. The Court of Appeal, however, reversed this judgment on the ground that there was a time when Ripley's blue was known among a certain class of people as Dolly blue.

SECRET COMMISSIONS.

ON Wednesday Lords Justices A. L. Smith, Vaughan-Williams, and Romer began to hear counsel in the appeal by Hovenden & Sons from the judgment by Mr. Justice Grantham in regard to the action was brought by them to recover certain sums paid by a firm to the appellants' servants by way of bribe or secret commission. The case is proceeding as we go to press.

SACCHARIN CORPORATION *v.* R. REITMEYER & CO.—JUDGMENT.

IN the Chancery Division of the High Court of Justice on July 6, Mr. Justice Cozens-Hardy delivered his reserved judgment in this action, which was brought by the plaintiffs for an injunction restraining the defendants from importing into this country or from manufacturing, supplying, and using in this country saccharin manufactured according to Monnet's patent 25,275, of 1894, and from infringing the plaintiffs' rights in respect of that patent. The plaintiffs complained that the defendants sold in this country for importation into this country certain saccharin to the Chemical and Drugs Company (Limited), of 7 Hope Street, Manchester, and also to Bratby & Hinchliffe, Ancoats, Manchester. Apart from the direct issue involved, the case had exceptional legal interest, as it raised a novel point of construction on the very old use of the word "exercise" in the common phrase "make, use, exercise, and vend," which occurs in all patents granted from the time of Queen Elizabeth to the present day.

In giving judgment, his Lordship said the plaintiffs relied on the importation of a parcel of saccharin purchased by the defendants in June, 1897, and imported into this country and sold by the defendants. The defendants admitted this importation and sale, but it was not proved that the saccharin in question was made according to Monnet's patent, and, on the contrary, he thought it had been shown that it was made by a different process. The plaintiffs' action so far as regarded this patent wholly failed. The plaintiffs also relied in their particulars on defendants' transactions in reference to certain parcels of saccharin ordered by defendants as commission-agents. The orders were given by the Chemical and Drugs Company to the defendants in England, the goods were delivered to the company at continental ports, and the defendants got their profits as commission-agents. As to these parcels the case was different. The saccharin was obtained by the defendants, and he thought he must hold, in the absence of any evidence to the contrary, that the plaintiffs had established that this one case of saccharin was made according to Monnet's patent. The evidence did not satisfy him except as to this one case. The defendants next contended that even if Monnet's process was adopted there was no infringement, because Monnet's was only a patent of toluene-sulphochloride, which was used in the manufacture of saccharin. The defendants contended, with great plausibility, that a new terror would be added to life if every person was held to infringe Monnet's patent who used an article imported from abroad in the course of the production of which saccharin derived from a chemical substance produced according to Monnet's process might have been employed. But that point had really been decided in favour of the plaintiffs by Mr. Justice Buckley in the case of the present plaintiffs *v.* the Anglo-Continental Chemical-works (Limited). Assuming, then, that the importation into this country of the saccharin infringed Monnet's patent, the further question arose whether the defendants had infringed. On this point his Lordship said:—

> A patent is of local force. It cannot and does not profess to interfere with or control acts done abroad, and it is for the plaintiffs to prove that what the defendants have done brings them within the reach of the law. The patent is in the common form scheduled to the Act of 1883. It confers upon the patentee the sole privilege and authority to "make, use, exercise, and vend" the invention within the United Kingdom and the Isle of Man. Of these four words, "make, use, exercise, and vend," it is admitted that the defendants have not "made" or "used," and I think it is clear that they have not "vended." It is said, however, that they have "exercised" the invention within the jurisdiction. It is remarkable that this word, which has been found in letters patent at least since 1621, so far as I am aware, has never been construed. I think, however, that it can only mean "put in practice." I do not think it can be taken to cover a transaction such as I have to deal with. The defendants as commission agents contracted for delivery to the purchasers at a German port. They had no interest whatever in the case when delivered at the foreign port to the purchasers. They had no right to control its destination. I assume that they knew or suspected that the greater part of the stuff would find its way into this country, but I cannot regard that as material. The acts done by the defendants on the Continent were lawful there, and—being done on the Continent—were not unlawful here. The plaintiffs have sought to extend the principle laid down in Elmslie *v.* Bousier and Von Heydn *v.* Newstadt—that the importation into and sale in England of an article manufactured abroad according to a process protected by an English patent is an infringement of the English patent—to a case where the defendants have neither imported into nor sold in England. The plaintiffs have attempted to create a prejudice in their favour by asserting that the purchasers to whom the stuff was delivered were, and were known by the defendants to be, a company possessing no capital. But this seems to me wholly irrelevant to any question I have to decide.

After further remarks his Lordship dismissed the action, with costs.

NAPHTHOL BLACK DYE.

LEVINSTEIN (LIMITED), the dye-manufacturers of Manchester, appealed last week against Mr Justice Ridley's decision in the action brought against them by Messrs. Campbell & Co., their agents in the United States, for the recovery of money spent in connection with a lawsuit respecting naphthol black dye. Messrs. Campbell took up the agency for this dye made by Levinstein (Limited), and the latter gave them an indemnity in respect to any action which might be taken under patents. Such an action arose, and in the judgment it was declared that the Levinstein dye infringed the patent. Messrs. Levinstein paid 2 350*l.* in respect of this lawsuit, but Campbell & Co. proceeded to appeal against the judgment, and succeeded, the Court holding that there had been no infringement. The present dispute arose out of that appeal. Defendants' contention was that his indemnity did not go beyond the initial proceedings.

Mr. Spokes, for the respondents, submitted that Messrs. Campbell were justified in appealing from the adverse decision of the Court of First Instance. Thereby they saved Levinstein & Co. from paying the damages which would have been payable had the first judgment stood. These damages would probably have been 10,000*l.*

Lord Justice Smith, after reviewing the facts of the case, said that the defendants had no right to say to the plaintiffs, "You can't go to the Court of Appeal at any cost." Mr. Justice Ridley's decision was right, and the appeal must be dismissed, with costs. Lord Justice Williams and Lord Justice Romer concurred.

PITKEATHLY MINERAL WATER.

THE following are the terms agreed upon by the parties in the action as reported by telegraph last week:—

> 1. That between this date and September 3, 1900, the defenders (Messrs. Reid & Donald), or any company or person acquiring right to their business, shall be entitled to manufacture and sell water bottled, designated, and labelled as hitherto, under the name "Pitkeathly Table-water" or "Pitkeathly cum Lithia,"

but during said period each bottle to be issued from defenders' works shall bear an additional label stating that the water will, after September 3, be manufactured and sold under a name to be selected by the defenders.

2. From and after September 3 the defenders shall manufacture and sell the water hitherto sold by them under a name entirely distinct from Pitkeathly.

3. The pursuers (the Pitkeathly Mineral Wells and Mineral-water Company) shall not be entitled to use the labels or trade designs at present used by the defenders, or any colourable imitation thereof.

YORKSHIRE RELISH.

IN the Chancery Division on July 7, Mr. Justice Cozens-Hardy granted Goodall, Backhouse & Co., of Leeds, a perpetual injunction to restrain the Shamrock Provision Company, Bradford, from passing off as "Yorkshire Relish" any sauce not made by the plaintiffs.

Sale of Food and Drugs Act.

ARSENIC IN SODIUM PHOSPHATE.

SURELY never before in the whole course of its history has Marylebone Police Court bristled so aggressively with F.I.C.'s, F.C.S.'s, and Ph.C.'s as it did on the afternoon of July 6. The occasion was the hearing of the trial in the "Arsenic in Sodium Phosphate" case, which has raised such a flurry in the pharmaceutical dovecotes of late; and that great interest was being taken in the case was manifest by the number of well-known pharmacists present. Amongst those who followed the case with keen attention in the capacity of spectators were Mr. W. Martindale and his son (Dr. Harrison Martindale), Messrs. J. C. Umney, W. J. I. Philp, George J. Knight, and several other West-end pharmacists. Mr. Glyn-Jones sat at the solicitors' table, and aided Mr. Beck (the solicitor for one of the defendants) in the able defence which was put forward. Mr. Otto Hehner and Mr. Moor, with British Pharmacopœias, laboratory note-books, and other deadly-looking literature, surrounded Mr. Beck, and no point was let slip to strengthen the case for the defendants or minimise the force of the prosecution. In the first case—which took an hour or more to get through—the interest was well kept up, and Mr. Plowden (who, by the way, bears a singular resemblance to Mr. Claridge Druce) by interjecting a jocular quip or by simply giving a quietly suggestive smile, kept the proceedings from becoming burdensome.

Mr. Charles Turk Howse, chemist, of 5 Bathurst Street, Hyde Park, was summoned, at the instance of the Paddington Vestry, for having on June 6 sold, to the prejudice of the purchaser, effervescent phosphate of soda which was not of the nature, substance, and quality demanded by the purchaser, as it contained one-eighth of 1 per cent. of oxide of arsenic (white arsenic, As_2O_3)—*i.e.*, $8\frac{3}{4}$ gr. of white arsenic per lb. There was also a summons by the same local authority against Messrs. Lewis & Burrows (Limited), of 22 and 24 Great Portland Street, W., for a similar offence, the effervescent phosphate of soda sold by them at their Westbourne Grove establishment containing, it was alleged, five-hundredths of $1\frac{1}{2}$ per cent. of white arsenic—*i.e.*, it contained $3\frac{1}{2}$ gr. of arsenic per lb. Mr. R. Cunningham Glen, barrister, supported the summonses on behalf of the Paddington Vestry; Mr. Frederic W. Beck, solicitor to the Chemists' Defence Association (Limited), defended Mr. Howse; and Mr. Horace Avory, barrister, appeared to defend Messrs. Lewis & Burrows.

Mr. Glen, in opening the case against Mr. Howse, pointed out that the British Pharmacopœia represented the drug as not containing any arsenic. Its constituent parts were, however set forth. He believed that in the process of the manufacture of sodium phosphate sulphuric acid was used, but great care had to be taken in the use of that acid, because if at all impure it contained arsenic. There was no doubt that the arsenic found upon analysis to be in the article complained of got there in the process of manufacture. That was a serious matter, for arsenic was one of the most dangerous poisons. As to the character of the drug, it was intended to be used as an aperient, and the presence of arsenic in it was liable to have a very serious effect upon the individual. The prosecution quite realised the fact that the defendants were obliged to obtain this drug from wholesale manufacturers, and that they had, of course, to rely upon these manufacturers very largely for the purity of the article. But in the case against Mr. Howse there was no defence of warranty taking the responsibility off the shoulders of the person who retailed the drug and throwing it upon the wholesale manufacturers. In all these cases the Act intended that the people who dealt in these drugs, which were of a dangerous character, should take extra care, and that if they wished to protect themselves they should obtain a warranty. This drug being an aperient was taken in a casual manner, and was therefore much more likely to be injurious because of the careless manner in which the doses were measured out It was generally taken by spoonfuls without being carefully measured, and therefore the danger was easily aggravated.

The first witness called was Thos. Parker, an inspector under the Act, who stated that on June 6 he went to the defendant's shop and bought 4 oz. of effervescent phosphate of soda, which he divided as required by the Act. In cross-examination by Mr. Beck, witness stated that he selected this particular drug for special reasons. He had never taken a sample of it. Defendant supplied him from a fresh bottle.

Dr. Reginald Dudfield, medical officer of health for Paddington since 1894, said the British Pharmacopœia gave the constituents of effervescent phosphate of soda, but arsenic was not mentioned among them. In the manufacture of sulphuric acid arsenic did creep in because sulphuric acid was made by the burning of pyrites, which contained arsenic. Arsenic would be found in the sulphuric acid if it was not properly purified; but the sulphuric acid used in the manufacture of sodium phosphate should contain none—the phosphate should be free from arsenic. The effervescent phosphate was directed to be used in two ways: in single doses from $\frac{1}{4}$ oz. to $\frac{1}{2}$ oz., and in repeated doses from 1 dr. to 2 dr. It was a very mild purgative.

Counsel: Is arsenic likely to be more deleterious in the case of an aperient than if taken otherwise?—Witness: It has a peculiar effect on the mucous membrane of the intestines.

By the Magistrate: A medicinal dose of white arsenic was $\frac{1}{60}$ gr. to $\frac{1}{15}$ gr. The rule adopted in giving arsenic was six days on and one day off. That was when given under very careful observation. With $8\frac{3}{4}$ gr. of arsenic to the pound a 60-gr. dose of phosphate would give 0·075 gr. of white arsenic; and 120 gr. would give 0·15 gr. of arsenic, which would be equivalent to ten maximum doses as directed by the British Pharmacopœia. The $\frac{1}{4}$-oz. dose would contain 0·136 gr. of white arsenic, which was approximately more than double the maximum dose mentioned in the Pharmacopœia. Half an ounce would give rather more than $\frac{1}{4}$ gr. of arsenic. The $\frac{1}{2}$ oz. was the maximum dose mentioned in the Pharmacopœia, and in that would be found $\frac{1}{4}$ gr. of white arsenic; while the maximum dose of white arsenic mentioned in the Pharmacopœia was $\frac{1}{15}$ gr. The text-books he had consulted stated that injurious effects had been reported to have occurred after a dose as small as 0·09 gr., which was equivalent to $\frac{1}{10}$ gr.

Mr. Plowden: Is that of your own knowledge?—Witness: I have no knowledge of my own of the poisonous effects of arsenic at all.

Cross-examined: The sample in this case was taken by his direction. It had come to his knowledge that there was a certain amount of phosphate of soda which contained arsenic. He did not learn that in consequence of a circular issued by a well-known firm. The information came to him privately. He had since issued a warning to the trade by direction of his committee, as follows:—

> The Sanitary Committee desire to call the attention of all dispensing chemists to the recent discovery that a large quantity of phosphate of soda which has been put upon the market is adulterated with arsenic. The committee recommend that all present stock should be examined. Samples will be purchased on behalf of the committee from time to time, and any found to contain arsenic will be dealt as the law directs.

That was dated June 21, and was issued because they thought it was such an important matter, and should be issued before these summonses were heard.

Mr. Beck: You thought the warning to the trade was necessary because of their previous want of knowledge on the subject?—Yes. Continuing, witness said the British Pharmacopœia was the guide, philosopher, and friend of doctors and chemists throughout Britain. It was published under the authority of the Medical Council. In the pre-

scription given for the preparation of sodium phosphate there was no warning with regard to the presence of arsenic. The warning was contained in the description of sulphuric acid; it warned manufacturers of sulphuric acid to test for arsenic.

Mr. Beck: Can you give me any other instance throughout the British Pharmacopœia where the warning in regard to the parent substance, so to speak, is not repeated in the product?

Witness replied that he was not sufficiently familiar with the Pharmacopœia.

Mr. Beck said he could give several illustrations from the Pharmacopœia showing that wherever sulphuric acid was used, or the parent substance contained arsenic, the warning of the ultimate product was always repeated except in this one instance of sodium phosphate. It was practically a commercial impossibility for a retail chemist to manufacture this drug; he had to buy it.

Cross-examination continued: Suppose he applies all the tests which the warnings in the Pharmacopœia give, could he discover that arsenic was present in this drug?

Witness: I don't know that he could.

Mr. Beck: So, after all, one has to blame the Pharmacopœia for what has taken place in this case. Do you agree that it is a warning which ought to have appeared in the Pharmacopœia?

Witness: I don't know that, for this reason—that the amounts present are very much greater than I should have expected to find.

Mr. Beck: But it is not suggested that the presence of arsenic here is other than in the process of manufacture?

Witness: If the result is to have 8¾ gr. of arsenic, it must be very impure sulphuric acid.

The Magistrate (to Mr. Beck): Suppose the Pharmacopœia did disclose arsenic as an ingredient of phosphate, how would that affect the chemist? Your case is that the manufacturer is to blame.

Mr. Beck: I say the manufacturer is equally misled by the Pharmacopœia. I am going to call the manufacturer before you. (To witness.) After all, the dose which one would take of arsenic in a dose of effervescent phosphate of soda would not be dangerous?

Witness: I would not give it to anyone under my care. I say it is within the dangerous doses. Continuing, witness said the smallest recorded fatal dose of arsenic was less than 2 gr.; it was ¾ gr. From 0·154 gr. to 0·162 gr. was poisonous, and 0·177 gr. was fatal. He did not know that in this drug the arsenic was present in a more or less insoluble form.

Mr. Stokes, public analyst for Paddington, said he analysed the sample in the present case. Every atom of arsenic was more than ought to be there. He had found samples which contained no arsenic whatever. What would have happened to Inspector Parker if he had taken this drug he did not know.

Cross-examined: He had reduced his analysis to the term of white arsenic, but it was probable it was not present as such in the substance. Possibly it was there as sodium arsenate. The quantity he had for analysis was so small that he could not say in which form the arsenic was present. But he could say it was not part of the material; it could be sifted out. That did not point to its having been introduced in the course of manufacture. Witness then explained in detail the process of his analysis. During his twenty-five years' experience, he said, he had never analysed this drug before, nor had he heard of anyone else doing so. There was no test in the Pharmacopœia for sodium phosphate that would discover the presence of arsenic. In sulphuric acid there was always a trace of arsenic. There was no warning in the Pharmacopœia for anything unusual which ought not to be there. The appearance of arsenic in it was unusual. Within the last few days he had examined fifteen samples, and when he mentioned that he had found 2¼ per cent. of arsenic the Court would see that it was not merely an impurity.

Mr. Beck: We are taking a sample containing 8¾ gr. per lb. Do you say seriously that it was impossible that that quantity should come there in the process of manufacture?

Witness: Yes.

Mr. Beck: You base your opinion in regard to that solely upon samples you have examined within the last three or four weeks?

Witness: Quite so. Some of these samples, witness continued, were purchased before May; he was unable to obtain samples manufactured in the previous year and the year before that. Out of the thirteen samples, he examined five containing arsenic varying in amount from 2¼ [?] per cent. down to a trace. It was not a mere impurity. Four of those five samples were vestry samples and one was private. The arsenic in those might have been an impurity. He agreed that where he was satisfied the arsenic was simply an impurity it would not have been right to prosecute.

By the Magistrate: Arsenic not being an accidental impurity, his theory was that it got there through mixing arsenate of soda with phosphate of soda. He could only suggest it was an accidental mixture. There was no object in putting arsenic in, so that if it was not an impurity, its presence was a mere matter of carelessness.

The Magistrate: You suggest it got there through carelessness.

Witness: It was not there as an impurity.

The Magistrate: If there is carelessness, the person who sells it is the person *prima facie* responsible.

Mr. Beck submitted on behalf of the defence that there was no offence. At the same time he admitted it was a perfectly proper case to be brought into court, because it was the best possible way of giving to the trade a warning which it was very desirable they should have. The trade and the public were therefore under an obligation to the Vestry for bringing the matter forward. While recognising that it was possible to exaggerate cases of this kind, there was no suggestion that anyone had been seriously injured by taking this drug. As to the history of the article in question, he pointed out that the defendant was a retail chemist, and it would be impossible for him to manufacture it. He bought it from a very well-known wholesale firm, Messrs. Davy, Yates & Co., the oldest firm in the trade. His attention was drawn to the matter by a circular issued by quite another firm with regard to the phosphate of soda put up by that firm. Curiously enough, they suddenly discovered that arsenic was to be found in their preparation, and they at once sent a warning to all their customers. Mr. Howse, having received that warning, took the precaution of showing this circular to Messrs. Davy, Yates & Co.'s representative, and said to him, "I presume, of course, your stuff is all right." "Yes, yes; oh, yes," he replied. And, relying on that defendant thought he was perfectly safe in selling the article Immediately after that it came to the knowledge of Messrs. Davy, Yates & Co. that their effervescent phosphate of soda also contained arsenic, and they therefore issued a similar circular to the whole of their customers, and tried to get in all they possibly could. In the meantime a sample was taken from Mr. Howse's shop by the Vestry's vigilant inspector. The point he wished to make was this. From the very earliest history of these substances down to the present time it was never until now discovered or suggested that the article contained or was liable to contain arsenic, in any form or quantity whatever. Of course, the chemist was responsible for what he sold. Naturally he could not test everything he sold by the British Pharmacopœia; but even if he did, and had applied the tests of the Pharmacopœia to this article, he would never have ascertained that it contained arsenic. There was no doubt that the retailer, the wholesale dealer, the manufacturer, and everybody alike had been deceived and lulled into security by the omission, which was probably quite accidental, from the British Pharmacopœia. He thought the suggestion made by the last witness with regard to accident rather came into his mind in this way. It was suggested by the firm he had referred to that the origin of the trouble in their case was a mistake which was made by the chemical-manufacturers. But the peculiar part was that it was perfectly certain the phosphate of soda in this case could not possibly have come from the same source. Everybody had been deceived by the British Pharmacopœia. He should call the manufacturers and trace their source of supply. Mr. Stokes had only analysed a few samples, and they had obtained samples dating back in manufacture from 1896 to the present time—samples purchased from various retailers in different parts of the country, and obtained from different wholesale houses and different manufacturers. In all they had obtained twenty-one samples, and every one of these contained arsenic. That suggested to anyone—other than Mr. Stokes—(laughter)—

that this was an admixture in the course of manufacture, and therefore there was not, in the ordinary sense of the word, an adulteration. The defendant was summoned for selling an article to the prejudice of the purchaser. He was bound to sell what the purchaser had a right to expect to have. Supposing that instead of discovering arsenic in this article they had discovered a chemical substance which was hitherto altogether unknown, surely it could not be said that the day after the discovery was made a person was to be held responsible for selling as an adulterated article an article which contained that unknown chemical. It seemed to him that in principle the discovery of a known poison, which had not been known to exist in a certain article was, after all, the same thing as a discovery hitherto unknown.

The Magistrate: Suppose the amount of arsenic in this particular article had been sufficient to produce the death of Mr. Parker, the inspector, would not the defendant have been liable to a charge of manslaughter?

Mr. Beck: It would be very hard on him to have to undergo two years' imprisonment for it.

The Magistrate: Think of the hard luck of Mr. Parker. (Laughter.)

Continuing, Mr. Beck said the standard for testing this article was the British Pharmacopœia, and the phosphate of soda in question answered the tests of that work. That being so, the vendor had sold an article which was of the known standard. It would be hard for the defendant to be convicted of selling an article which contained something that nobody had ever heard of before in that article. Then, as to the certificate, Mr. Stokes had not really stated the result of his analysis. Mr. Stokes said the article in question contained one-eighth of 1 per cent. of oxide of arsenic —*i.e.*, 8¾ gr. of white arsenic per lb. He (Mr. Beck) submitted that it never was white arsenic; it was sodium arsenate. But, apart from that, what Mr. Stokes ought to have done was to show the result of his analysis—to show what it did and ought to contain, and leave the Court to judge whether an offence had been committed.

The Magistrate: You mean he ought to have set out the ingredients.

Mr. Beck said that was so. There was nothing on the certificate to show that this article did not properly contain arsenic. The inspector, having received this certificate, was in no position to judge whether an offence had been committed. He therefore claimed that on that ground the prosecution had failed.

Mr. C. T. Howse, called on his own behalf, bore out the statement in counsel's opening remarks. Up to the time of receiving the warning notice he had no idea that phosphate of soda might contain arsenic, and should never have looked for it, as the B.P. made no mention of it. Cross-examined: Notwithstanding that his attention was drawn to the fact that this article might contain arsenic, he did not test what he had; he took the word of the representative of the firm.

Mr. Charles Alexander Hill, a partner in the firm of Davy, Hill & Son, Yates & Hicks, said he was director of the laboratory, and the phosphate of soda sold to Mr. Howse in December, 1899, was the product of his firm. They received the original phosphate of soda in powder from the manufacturers and purified it by recrystallisation, removing the mineral impurities, such as chlorides and sulphates, mentioned in the Pharmacopœia. They did not take any steps to remove arsenic, as there had never been a suggestion that arsenic was present. Had manufacturers known that this article was liable to contain arsenic it would have been quite possible to remove it by an easy and inexpensive method. They purchased the original phosphate from Mr. Crook, a well-known chemical broker, in November, 1897, and paid the full market-price for the best quality. In manufacturing the effervescent phosphate of soda they followed the British Pharmacopœia directions, and it was tested according to that authority. They were obliged to accept the authority of the Pharmacopœia as their guide in that respect. They sold it as a B.P. product. It was impossible in their establishment for white arsenic to become mixed with the article in the process of manufacture. If white arsenic were there it would come in the process of making the phosphate of soda. One of the samples supplied to Mr. Hehner and Mr. Moor was taken from the original article supplied by Mr. Crook; and another was from an article supplied by another firm of well-known manufacturers. He also gave them (Messrs. Hehner and Moor) a sample that had been returned from one of their customers, to whom it was supplied in 1896.

Cross-examined: The sample taken from their warehouse by Mr. Hehner and Mr. Moor contained arsenic. It was in the article when they bought it, and may have been present because of the use of impure sulphuric acid in the process of manufacture. Pure sulphuric acid would not contain arsenic.

Mr. W. S. Glyn-Jones said he received a sample of this article from Mr. Moor, and obtained in addition twelve other samples from other chemists, nine of whom were retail chemists scattered all over London, while the other three were wholesale dealers; but not Messrs. Davy, Yates & Co. or the other firm referred to. He had ascertained at the retail establishments that the samples obtained had come from at least seven different wholesale houses. He divided the samples into two parts, one of which he delivered to Mr. Moor and the other to Mr. Otto Hehner. During his fifteen years' experience in the trade he had never heard that it was necessary to check phosphate of soda for arsenic. He did not believe there was a large trade in the article; he had not sold one bottle of it during the seven years he had been in business. Cross-examined: If sulphuric acid was used he could not say there would be no arsenic; there might be. It might come from other sources, but not in appreciable quantities. Phosphate of soda might be used for purposes in which it would not matter if it were made with pure sulphuric acid or not. With the exception of two of the samples all of them were purchased at wholesale houses before this year.

Mr. Otto Hehner, public analyst, said he had examined a sample of the article received from Mr. Moor, and twelve others given to him by Mr. Glyn-Jones, besides one he himself purchased from one of the best and most reliable chemical-manufacturers. In addition, he had taken samples at Messrs. Davy, Yates & Co.'s of effervescent sodium phosphate which was made some time previously, and also some from the cask of sodium phosphate which he was told contained the remnant of the stuff used for the purpose of this manufacture. Altogether he had twenty-one samples, and there was not one that was quite free from arsenic. Even his own sample, which he believed to be chemically pure, contained ½ gr. per lb. of arsenic. The sample from the original cask which Mr. Hill purchased from Mr. Crook contained 14·07 gr. of arsenic. It was present, however, not as arsenic, nor as white arsenic, but as sodium arsenate. The third sample contained 4·4 gr. of arsenic, which was equal to 5·9 gr. of arsenious acid. The public analyst's analysis in the present instance was substantially correct, though it had been over-estimated, he thought. As a public analyst, he (witness) would not countenance a medicine of this kind containing any arsenic at all. He had often used sodium phosphate, and had never heard of anyone testing it for arsenic, although, on a certain amount of reflection, one ought to know it might be there. There was no test given in the British Pharmacopœia. The Pharmacopœia, which in every instance gave possible or probable impurities to be tested for, had entirely omitted, by some oversight that was inexplicable, to give the test for arsenic in the case of sodium phosphate. It gave the test for every other article which, by hook or by crook, might contain arsenic; but this one had been forgotten. He was perfectly certain that the arsenic was introduced in the original process of manufacture. He had absolutely no doubt that this was not a case of added arsenic, because arsenic was present in all sodium phosphates. Now that attention had been called to the matter, this should not occur again.

Cross-examined: The Pharmacopœia said a certain article might be made of certain things. It was possible one of the ingredients might contain arsenic, and it was the principle of the Pharmacopœia to point this out, and not to throw the onus of discovering it on the manufacturer.

The Magistrate: It should put you on the scent.

Witness: It does not in this instance. It mentions that arsenic is to be found in sulphuric acid.

Continuing, witness said he could find no other instance in which the warning for the test was not repeated. In every case but this one the test had been specially given, although the pure substance ought to have been used.

Mr. C. G. Moor said his analysis of the sample in question showed only a little more than half the quantity of arsenic

to be present that Mr. Stokes found, and, therefore, wishing for an independent analysis, he sent the remainder of his sample to Mr. Hehner. Speaking generally, he confirmed Mr. Hehner's conclusions. As to the source of the arsenic he thought it must be due to the sulphuric acid, as it was to be found in all the samples; and he agreed that it arose in the process of manufacture. Cross-examined: He was surprised to hear that different results could be obtained from analysing fine and coarse phosphate. He agreed there was too much arsenic in the article in question for medicinal purposes. By the Magistrate: This medicine has been used a long time, but not extensively.

This concluded the first case, and the Magistrate decided to reserve his decision until he had heard the second case.

In opening the case against Lewis & Burrows (Limited), Mr. Cunningham Glen said they had had notice of a warranty in this case, but he contended it was not a warranty according to the Act. The warranty was given by the firm of Davy, Hill & Son, Yates & Hicks so long ago as December 24, 1898. In the first instance it was a very stale warranty. The terms of it were:—

We hereby guarantee that all pharmaceutical-preparations supplied by us will stand the regular tests of the 1898 edition of the British Pharmacopœia.—We are, yours truly, DAVY, HILL & SON, YATES & HICKS.

The Act required that the warranty should be a substantial warranty in regard to a particular sale, and this warranty, he maintained, was far from being substantial. It was a general warranty, and there was nothing in it to connect it with this particular sale. The invoice sent with that article was dated 1899.

Mr. Parker, the inspector, having proved the purchase of the article at Westbourne Grove, and Mr. Stokes having given the result of his analysis,

Mr. Horace Avory, for the defence, submitted that there was a complete answer under Section 25 of the statute, by which it was only necessary to show that the article sold was the same in nature, substance, and quality as that demanded. Defendants had no reason to believe that the article was otherwise when they sold it, and they sold it in the same state as they purchased it. The only question was whether they purchased it with a written and sufficient warranty. The Act provided that there must be evidence that the substantial article purchased was purchased with the warranty, and that the warranty applied to this specific article. It was not disputed that a general warranty could be given. The one they held was obviously a general warranty applying to future deliveries, for the words were: "We guarantee that all pharmaceutical preparations supplied by us—(that must mean in the future)—will stand the required test of the 1898 edition."

The Magistrate: The words "will stand" are clearly meant for the future.

Mr. Avory said he would prove that there was no supply on the particular day the warranty was dated, and that it was given to cover all future deliveries. This particular article was one of the deliveries under the general warranty. If, therefore, his Worship held in the previous case that the Pharmacopœia required that pure sulphuric acid should be used in the manufacture of this article, then it was clear that this warranty covered the use of impure sulphuric acid.

Mr. Beck said he also represented the firm by whom the warranty was signed, and if it were possible for them to admit that they gave a warranty, they would do so. They quite believed it was a pharmaceutical preparation.

Ernest William Gough, general manager to Lewis & Burrows (Limited), having given evidence, Mr. Plowden intimated that he would give his decision in the following week.

MAGISTRATE'S DECISION.

Mr. Plowden, in giving his decision on Thursday, July 12, said the facts of the two cases were for all practical purposes identical. There was no real dispute as to the facts of the analysis, beyond a slight and immaterial difference of opinion as to the quantity of arsenic found. But it was strenuously contended on behalf of the defendants that they were not liable to any penalty, on the broad ground that they did not know and had no reason to suspect the presence of arsenic in the article which they sold. A further defence was now set up on behalf of Lewis & Burrows that they had bought the medicine in the same state as they sold it and with a written warranty to that effect. In the course of the evidence it was shown that the drug in question was of American origin, and had been in use in this country since 1874. Fortunately, it may be said, there was not a great sale of it, but whether the sale was extensive or not, it was obvious that during twenty-five years widespread injury to health might have been occasioned by the use of a medicine more or less mixed with arsenic, especially to those who were unfortunate enough to rely upon it habitually. The next point made by the defendants to explain this ignorance was that by some unaccountable omission no warning—no "danger signal," as it was graphically described—was to be found in the British Pharmacopœia indicating that arsenic might be looked for among the ingredients of effervescing phosphate of soda. This view found emphatic expression in the evidence of Mr. Otto Hehner, to whom the presence of arsenic in phosphate of soda had come as a revelation. He had no doubt now that the poison was introduced in the original process of manufacture by the use of impure sulphuric acid. This view, however, was not concurred in by Mr. Stokes. The history of the particular consignment which had been sold to the defendants was carefully traced in the evidence, with a view to show that from first to last the presence of arsenic was never suspected—the whole case for the defendants, in short, being that the general ignorance on the subject was so natural and so profound that no blame properly attached to anybody, least of all the unhappy druggist at the end of the chain, who sold it as he received it, and was the least likely of anybody to suspect its purity. On the other hand, Dr. Dudfield, the Medical Officer of Health, found very clearly that arsenic was not a natural ingredient of effervescing phosphate of soda, and though it was true the Pharmacopœia contained no warning that it must be looked for, yet there was distinct reference to sulphuric acid as an ingredient under the heading of "Sodium Phosphate," and that in itself, if followed up, would have led to the discovery of the poison, which no doubt had crept in by reason of the impure state of the acid. Upon that evidence it seemed to him clear that a mixture was sold to the purchaser different from what he demanded, and highly to his prejudice. As for the plea of ignorance which had been set up, whatever moral value it might have it was one which the law could not recognise, and which if it once obtained legal sanction might easily be attended by the most serious consequences. If there was any question of malice in the case ignorance no doubt might be an effective answer, but short of that the only value it could have was in mitigation of punishment. He was, therefore, of opinion that both defendants must be held responsible. As for the defence for Lewis & Burrows, that the guarantee they received from the wholesaler was a sufficient warranty under the statute, he was of opinion that this guarantee was clearly not sufficiently specific as to the thing delivered and sold by the defendants on June 6, 1900, and afforded, therefore, no defence to the defendants. The defendants in each case would have to pay a fine of 10*l*., and five guineas costs.

SWEET SPIRIT OF NITRE.

AT Burnley on July 11, Charles Edward Dodsley, chemist, was fined 15*s*. (including costs) for selling spirit of nitrous ether which was certified to be deficient to the extent of 55 per cent. of ethyl nitrite.—Samuel Fletcher, chemist, was fined 10*s*. (including costs) for a similar offence, the deficiency in his case being stated to be 12 per cent. Mr. Fletcher contended that the deficiency was a natural one.—A grocer named Oxley was also mulcted in 10*s*. and costs, the article purchased from him being 50 per cent deficient.

AT Darlington on July 10, Taylor's Drug Company (Limited) of High Road, were summoned for selling sweet spirit of nitre which the county analyst certified to be 25 per cent. under the B.P. standard. It was urged for the defence that it was unfair to set up the standard mentioned as absolute for sweet nitre after it had been exposed to evaporation in the ordinary course of trade. The nitre was purchased from Messrs. Goodall, Backhouse & Co. The Bench fined the defendants 10*s*. and costs, but refused to grant the costs of the analyst's attendance.

Bankruptcies and Failures.

Re JOHN REES, Cardiff, Chemist and Druggist.

THIS debtor came up for his public examination at the Cardiff Bankruptcy Court on July 6, before Mr. Registrar Cousins. Examined by the Official Receiver, he attributed his failure to bad trade, from which he said he had suffered for about six years; but it was only during the recent strike that he found himself unable to meet his liabilities. During the past three years he had been occasionally sued by his creditors, and had endeavoured to dispose of his business, but was unable to do so. About a month ago he sold his shop and adjoining house by auction; but the amount which he realised by the sale only covered mortgage and expenses. He once had one-fourth part interest in an hotel in Cardiff; but he parted with that four or five years ago for 1,200*l.*, the whole of which went to pay off an overdraft at the bank. When his wife died she left him a house in Paddington, London, and he sold it. His takings only amounted to about 3*l.* or 4*l.* a week, whilst his household expenses, with rates, absorbed 3*l.* a week. The examination was closed.

Re WILLIAM J. GIBLIN, M.B., C.M., 258 Dumbarton Road, Glasgow.

UNDER the petition for cessio this debtor's estate shows liabilities 551*l.* 9*s.* and estimated assets 270*l.* Amongst the trade creditors are:—

	£	s.	d.
Anderston Apothecaries' Company, Glasgow	1	8	0
McDonald, J. C.	10	0	0
Medical Association, Edinburgh	5	0	0
Pinkerton, Gibson & Co., Edinburgh	40	0	0
Webster & McIvor	100	0	0

Re DAVID SIMPSON, St. Ninian Street, Glasgow, Aërated-water Manufacturer.

AMONGST the creditors in this sequestration are:—

	£	s.	d.
Arthur & Hinshaw, Glasgow	7	11	0
Brunner, Edward, Liverpool	10	8	4
Burgoyne, Burbidges & Co., London	7	10	5
Clutha Chemical Company, Glasgow	27	3	10
Duckworth & Co., Manchester	6	18	6
Manchester Chemical Company	2	9	0
Meadowcroft, W., & Co. (Limited)	2	10	7

The liabilities amount to 660*l.* 0*s.* 6*d.*, and the assets are estimated to yield 500*l.*

Re HARRY J. ISON, Shrewsbury, Chemist and Druggist.

THIS debtor again appeared for his examination at Shrewsbury Bankruptcy Court on July 4, and was questioned respecting his brother's claim of 171*l.* against the estate. He admitted that his brother had retained 150*l.*, debtor's share of property at Wellington, in discharge of the loan, and that his brother proved against the estate owing to a misapprehension on his (debtor's) part. He denied having had any motive, or that he would have benefited had the claim held good. The examination was closed.

Re THOMAS IRWIN WALLAS, 9 Great Marylebone Street, W., Chemist and Druggist.

THE first meeting of creditors under this failure was held on July 11 at the London Bankruptcy Court, before Mr. A. H. Wildy, Official Receiver. The debtor, who filed his own petition on June 27, states that his principal work is of an analytical, clinical, and bacteriological character. He commenced business on his own account in January, 1896, with a capital of between 3,000*l.* and 4,000*l.*—his own savings. In the following May he took possession of premises at 491 Oxford Street under a lease of twenty-one years, at an annual rent of 320*l.* and an undertaking to put the premises in structural repair. That proved a heavier burden than was anticipated, and having expended about 1,000*l.* on drainage and repairs, he had to borrow 2,500*l.* in the May or June following, on the security of the lease. The expenses were too heavy for the business done, which was about 1,200*l.* a year, and in May, 1898, he removed to 9 Great Marylebone Street. The expenses had been considerably reduced, the business rapidly improved, and the turnover had been doubled. The Chairman stated that the debtor on his preliminary examination returned his liabilities at 4,000*l.* or thereabouts, and his assets at 7,000*l.* The latter figure was only an estimate, and was, of course, subject to realisation, but it was anticipated that the estate, even under a realisation in bankruptcy, would yield sufficient to pay the creditors 20*s.* in the pound. The failure was ascribed to the expense of the structural repairs at 491 Oxford Street, loss on trading at that address, loss of capital through commencing a new business, and serious illness of the debtor's wife and children. In reply to a creditor the debtor said his present business returns were shown by the books at about 2,500*l.* a year.

Mr. Geo. White said he had been asked by the trade creditors to take the post of trustee, but he understood that the cash creditors were in favour of the appointment of Mr. H. W. Wilson to the post.

Mr. Wilson said that was the case, and out of a total unsecured indebtedness of 4,000*l.* the trade debts only amounted to about 300*l.* or 400*l.* The cash creditors were willing to assist the debtor to buy the estate out of bankruptcy, and as the work done by the debtor was of a special nature, that sale would probably yield 500*l.* more than if the business were sold to another person.

After some discussion Mr. White, Mr. Wilson, Mr. Gimlett, and Mr. W. R. Gaff were respectively nominated for the post of trustee, and upon a vote being challenged the Chairman announced that Mr. H. W. Wilson would be elected. The other nominations were thereupon withdrawn, and Mr. Wilson was elected without opposition. The following creditors were selected to act as a Committee of Inspection—viz., Mr. Barnett Samuel, Mr. Thomas Detchon, and Mr. Richard Turner Morris.

The public examination of the debtor is appointed for July 31.

The trustee was directed to give security in a bond for 3,000*l.* Appended is a list of the proofs tendered by creditors:—

	£	s.	d.
Apollinaris Company (Limited)	14	2	3
Barclay & Sons (Limited)	48	18	2
Brunton, Sir T. L.	50	0	0
Clutton, H. H.	50	0	0
Detchon, T.	464	2	6
Eden, Fisher & Co.	53	12	6
Evans, Lescher & Webb	44	0	9
Hodgkinson, Prestons & King	32	13	1
Idris & Co	37	16	2
Macfarlan & Co.	47	2	2
Meggeson & Co.	25	8	4
Morris, J., & Son	762	19	0
Phillips, C. D. F.	271	5	0
Robinson & Sons (Limited)	16	19	10
Samuel, B.	250	0	0
Wallas, Isabella	134	14	10
Waring, S. J., jun.	250	0	0
Willows, Francis, Butler & Thompson	51	4	4
York Glass Company (Limited)	39	4	5

Deeds of Arrangement.

Campbell, James Ennyce, trading as James E. Campbell & Co., 21 Honey Street, Red Bank, Manchester, and residing at 11 Woodlands Street, Cheetham Hill, Manchester, chemical-manufacturer. Trustee, Evan Williams, 41 John Dalton Street, Manchester, chartered accountant. Secured creditors, 40*l.* Dated July 3; filed July 9. Liabilities unsecured, 1,162*l.* 7*s.* 5*d.* Estimated net assets, 541*l.* 13*s.*
[No creditors directly connected with the drug trade].

Thurland, Thomas, 66 St. Giles Street, Oxford, chemist and druggist. Trustee, Adolphus Ballard, 5 Magdalen Street, Oxford, solicitor. Dated June 28; filed July 4. Liabilities unsecured, 786*l.* 1*s.* 5*d.* Estimated net assets, 340*l.* The following are scheduled as creditors:—

	£	s.	d.
Allen & Hanburys (Limited), London	10	0	0
Barron, Harveys & Co., London	80	0	0
Comfort, B., Oxford	85	0	0
Holiday, —, Summertown	45	0	0
Hood, W. N., & Co, London	45	0	0
Maw, Son & Thompson, London	22	0	0
Pike, —, Bristol	41	0	0
Rawlins, —, Oxford	16	0	0
Taunton, Major, Oxford	10	0	0
Thurland, H., Oxford	23	0	0
Varney, —, Oxford	32	0	0
Wyatt, —, Oxford	65	0	0
Wyatt, W. W., Oxford	112	0	0
Wyleys, —, Coventry	24	0	0
Bankers' claims	24	0	0

Baker, William Weaver, trading as W. Phillips & Co., 215 and 217 Lewisham High Road, Brockley, chemist and druggist. Trustee, William A. Schultz, 46 Cannon Street, City, chartered accountant. Dated July 3; filed July 6. Secured creditors, 44*l.* 16*s.* 4*d.*; liabilities unsecured, 1,157*l.* 8*s.*; estimated net assets, 620*l.* 2*s.* 7*d.* Composition of 10*s.* in the pound, payable by four equal instalments at three, six, nine, and twelve months from registration hereof, secured by an assignment upon trust, &c. The following are scheduled as creditors:—

	£	s.	d.
Allen & Hanburys (Limited), London ...	19	0	0
Alney, E., Midhurst	420	0	0
Barron, Harveys & Co., London	97	0	0
Bond & Sons, London	11	0	0
Camwal (Limited), London	56	0	0
Cow & Co., London	20	0	0
Coxeter & Sons, London	17	0	0
Electric Supply Company (Limited), London	18	0	0
Haycroft & Sons, London	11	0	0
Hearon, Squire & Francis (Limited), London	82	0	0
Idris & Co., London	136	0	0
Maw, S., Son & Thompson, London ...	115	0	0
Newbery & Sons, London	17	0	0
Silverlock, H., London	33	0	0
Whitaker (Limited)	11	0	0
Wright, Layman & Umney (Limited), London	11	0	0

Gazette.

Partnerships Dissolved.

Berridge, W. A., Drake, E. C., and **Bromet, E.,** under the style of Berridge, Drake & Bromet, Redhill, general practitioners, medicine and surgery.

Low, W. S., and **Brown, G. W.,** under the style of Stuart Low & Brown, Westminster Bridge Road, S.W., physicians, &c.

Pimlott, S., and **Gatenby, T.,** under the style of Pimlott & Gatenby, Bollington, near Macclesfield, mineral-water manufacturers.

Roberts, R. P., and **Thomas, O. E.,** under the style of Meshach Roberts & Co., Bangor, Carnarvonshire, chemists and druggists.

Soutter, M. K., and **Soutter, D. W. L.,** under the style of Soutter & Soutter, Cumberland Terrace, Finsbury Park, N., and Avenell Road, Highbury, N., physicians and surgeons.

New Companies & Company News.

McLINTOCKS PAINT AND COMPOSITIONS COMPANY (LIMITED).—Capital 12,000*l.*, in 1*l.* shares. Objects: To carry on the business of oil, paint, varnish, composition, and chemical manufacturers and merchants, &c. The subscribers are to appoint the first directors. Qualification, 100*l.* Registered office, 64 Moorgate Street, E.C.

BAINES & WHITMORE (LIMITED).—Capital 50,000*l.*, in 1*l.* shares. Objects: To acquire the business carried on at Leicester as Baines & Whitmore, and to carry on the business of grocers, chemists, &c. The first directors are C. E. Whitmore, C. D. Price, A. H. Whitmore, J. A. Taylor, and C. H. Holland. Qualification, 500*l.* Remuneration as fixed by the company. Registered office, 6 Halford Street, Leicester.

HEALTH SOAP COMPANY (LIMITED).—Capital 10,000*l.*, in 1*l.* shares. Objects: To carry on the business of soap-manufacturers, oil-refiners, manufacturing chemists and druggists, and makers of all kinds of toilet-requisites. The first subscribers are:—Robert Ramsbottom, outfitter; Mrs. L. A. Ramsbottom; William Duckworth, chemist; Richard Parker Greenland; and Mrs. C. B. Greenland, all of Manchester; Mrs. Emily Duckworth, Flexton, Lancs; and Walter Morley, Old Trafford, cashier. The registered office is at the Health Soap-works, Brookhill Road, Bootle, Lancs.

SALISBURY DIETETIC HOMES (LIMITED).—Registered in Edinburgh. Capital 2,000*l.*, in 1*l.* shares. Objects: To found and carry on houses for the dietetic treatment of invalids in any part of Great Britain or Ireland. The first subscribers are:—James Callum, 25 Dublin Street, Edinburgh, C.A.; John Paxton, 7 Inverleith Place, Edinburgh, gentleman; Miss Mary Paxton, 25 Blacket Place, Edinburgh; Robert Pringle, 16 Newington Road, Edinburgh, dental surgeon; Mrs. Kate Callum, 25 Dublin Street, Edinburgh; Miss Margaret Hordem, 17 Inverleith Place, Edinburgh; and Percival Lobattian, 25 Dublin Street, Edinburgh, accountant. The first directors are Robert Pringle and James Callum. Qualification, 25*l.* Remuneration as fixed by the company.

SMITH'S DENTAL INSTITUTE (LIMITED).—Capital 350*l.*, in 1*l.* shares. Object: To take over the business of a dentist, dental practitioner, and dental surgeon, now carried on at Market Street, Guildford. The first subscribers (each with one share) are:—G. Cheverton, J.P., F.C.S., 23 Hilly Fields Crescent, St. John's, S.E., veterinary surgeon; W. Stokes, Meadow Lodge, Tunbridge Wells, estate agent; M. A. H. Edwardes, Sutherlands, Tunbridge Wells, newspaper proprietor; A. E. Palmer, 1 Borough, Farnham, dental mechanic; M. Haynes, 41 Snells Park, Edmonton, N., journalist; V. C. Jackson, 3 Hayling Road, Stoke Newington, N., journalist; and A. P. Smith, 39 Artillery Street, S.E., clerk. Registered without articles of association. Registered office, 7 Market Street, Guildford.

ETON DRUG COMPANY (LIMITED).—Capital 500*l.*, in 1*l.* shares. Objects: To adopt an agreement with F. Edwards and to carry on the business of chemists, druggists, drysalters, oil and colour men, dealers in electrical, chemical, surgical, photographic, scientific, and other apparatus and materials, &c. The first subscribers are:—J. E. Morris, 32 Augusta Street, Cardiff, steelworker; F. Edwards, 23 High Street, Llandaff, chemist's assistant; R. Jordan, Whitchurch, undertaker's manager; G. Poole, 35 Cowbridge Road, Cardiff, dentist; Mrs. S. Edwards, 23 High Street, Llandaff; Miss E. Williams, 20 The Hayes, Cardiff; and D. James, 253 Newport Road, Cardiff, paper-merchant. F. Edwards is the first director, and may retain office so long as he holds 100 shares.

SAGACITY & CO. (LIMITED).—Capital 1,000*l.*, in 1*l.* shares. Objects: To acquire the business carried on by Young Hartley at the Imperial Works, Radcliffe, as Sagacity & Co., and to carry on the business of chemists, druggists, drysalters, oil and colour men, dealers in electrical, chemical, photographic, surgical, and scientific apparatus and materials, &c. The first subscribers are:—D. W. Yates, Holland House, Radcliffe, paper-stainer; Mrs. C. Yates, Holland House, Radcliffe; A. Yates, 36 Irwell Street, Radcliffe, paper-stainer; W. H. Yates, 31 Darbyshire Street, Radcliffe, paper-stainer; Y. Hartley, 7 Eton Hill, Radcliffe, drysalter; A. C. Wilby, 11 Thorpe Street, Whitefield, Lancashire, cashier; and E. Yates, Holland House, Radcliffe, drysalter. Registered without articles of association.

BROOK, PARKER & CO. (LIMITED).—Capital 6,000*l.*, in 1*l.* shares. Objects: To carry on the business of chemists, druggists, dentists, opticians, Italian warehousemen, grocers, wine and spirit merchants, manufacturers of photographic, surgical, scientific, and optical instruments and appliances, dealers in proprietary articles, &c. The first subscribers are:—G. B. Parker, Tyersall Hall, Pudsey, chemist; T. W. Parker, Tyersall Hall, Pudsey, traveller, S. Parker, Winterdyne Terrace, Morecambe, Lancashire, chemist; J. Akam, 5 Valley View Grove, Bradford, timber-merchant; J. I. Akam, 24 Spring Road, Shipley, timber-merchant; J. W. Akam, 5 Valley View Grove, Bradford, wholesale druggist; B. Akam 5 Valley View Grove, Bradford, stuff salesman; and C. Hall; Belar Cottage, Tyersall, Yorks, druggist's manager. The first directors are George B. Parker and Joseph W. Akam. Qualification, 500*l.* Registered office, 3 Feversham Street, Leeds Road, Bradford.

LIEBIG'S EXTRACT OF MEAT (LIMITED).—At an extraordinary general meeting held on July 6, under the presidency of Mr. C. E. Gunther, the special resolutions proposed at the former extraordinary general meeting were confirmed, authorising the creation of 500,000*l.* new capital in 5 per cent. preference shares, and also the issue of one such 5*l.* share free, and the offer of another such share at par, to the holder of each ordinary share.

SCOTT-VOGT CHEMICAL COMPANY (LIMITED).—In regard to the action in this matter pending in the Court of Session, Edinburgh, answers have this week been lodged by Thomas Pittethly, chemical broker, and Oliver Cromwell Townsend, chemical manufacturer, Glasgow, and John Laing, chemist, Hazelbank, Chryston, to the petition by Wm. B. Galbraith, chartered accountant, liquidator of the Scott-Vogt Chemical Company (Limited), for approval of his deliverances. The answers deal with the mechanics of the Scott-Vogt process, and the money absorbed in the endeavour to work the latter.

SHARP BROTHERS' SOAP AND PERFUMERY COMPANY (LIMITED).—In the Chancery Division of the High Court of

Justice on July 10, Mr. Justice Cozens-Hardy had before him a petition by J. & P. Cowan for the compulsory winding up of this company. The petitioners were creditors on a dishonoured bill of exchange for 76*l.* 4*s.*, and they held other acceptances which were not yet due. A resolution for voluntary winding up had been passed, but the petitioners and other creditors asked for a compulsory order. His Lordship thought this was a case in which the creditors had a right to intervene, which they would not have under a purely voluntary winding up. Accordingly he made an order continuing the voluntary winding up under the supervision of the Court, with the usual order as to costs.

APOLLINARIS AND JOHANNIS (LIMITED).—The report of the directors for the year ended March 31 states that by the additional profits derived from the sale of Apollinaris water the company is better able to bear the temporary and heavy burden and cost of developing the business in "Apenta" water, which is rapidly becoming a highly valuable property. On the other hand, the directors do not feel justified in charging the whole of these expenses against the Apollinaris profits. Although the cost of advertising "Apenta" has been considerably greater than it was in the preceding year, and although 5,000*l.* has in addition been written off the 15,000*l.*, which was brought forward from the year ending March 31, 1899, the directors have determined to carry forward only 12,500*l.* thereof, making a total of 22,500*l.* to be carried forward to the next account against the unexhausted advertisements. All advertisement charges for Apollinaris and Johannis have been written off. 2,936*l.* has been written off for depreciation in plant and machinery. The net profits for the year, *plus* 1,633*l.* brought forward, amount to 173,429*l.*; less debenture interest, 34,000*l.*—139,429*l.* Deducting amounts already paid as dividend on preference shares at 5 per cent., 59,500*l.*; and interim dividend on ordinary shares at the rate of 6 per cent. per annum, 35,700*l.*—there remains 44,229*l.* The directors recommend the payment of a balance dividend on the ordinary shares at the rate of 6 per cent. per annum, making, with the interim dividend paid, 6 per cent. for the year. They further recommend placing 5,000*l.* to reserve, leaving 3,529*l.* to be carried forward.

A. J. WHITE (LIMITED).—The report of the directors for the year ending March 31 states that the irregularities mentioned at the last annual meeting had been adjusted, and the late managing director had been succeeded by another, and the directors now report that further investigation had been completed by the present managing director (Mr. Henry Wellington Wack), with the assistance of the company's auditors, and that a definite statement of the result will be made by the chairman. The directors have, moreover, followed up this investigation by representations and negotiations, which have resulted in a conditional payment and arrangement for the adjustment of these matters. The directors unanimously advise the proposed compromise, and it is supported by shareholders representing more than half the entire capital of the company. Notwithstanding past difficulties, and after paying the full dividends on the preference shares, there remains an available balance of 14,833*l.* to be disposed of at the meeting. The directors announce the retirement from the board on May 30 of Messrs. Alf. Cooke, Milton Bartholomew, Charles Birchall, and Benjamin B. Nixon, who upon that date sold their holdings in the company to some of the largest shareholders, then already owning upwards of half-a-million shares. These retired directors do not offer themselves for re-election. In the general interests of the business, and to insure a united, consistent, and successful future management, the directors recommend the election of the Hon. Phineas C. Lounsbury and Mr. Lucius H. Biglow, who, with the remaining members of the present board, will thus represent a preponderating interest in the company. Mr. J. Taylor Marsh, having lately been appointed a director, retires, and offers himself for re-election. The auditors, Messrs. W. O. Attree, Son & Co., offer themselves for re-election.

SEVERAL FRENCH-SWISS PHARMACISTS have founded an association, under the name of "Union pharmaceutique romande," which will buy for its members or put on the market all specialities and patent medicines. Its capital is 30,000 francs, in shares of 100 francs.

Outings.

The annual outing of the employés of Messrs. Besley & Dalgleish, chemists' printers, of South Street, Exeter was held on July 7, when the party took advantage of an excursion arranged by the Exeter Working Men's Society to visit Liverpool and New Brighton.

The staff at the Lincoln branches of Boots (Limited), cash chemists, numbering about forty, last week went to Fulbeck, at the invitation of the Rev. Vere Willson, and had a good time, their amusements comprising croquet, dancing, and haymaking, a liberal supply of refreshments being added.

Messrs. Townson & Mercer, scientific-instrument makers Camomile Street, E.C., entertained the whole of their employés to a day's enjoyment at Hastings on July 7. Mr. F. M. Mercer, the senior member of the firm, presided over the post-prandial proceedings, and all returned late in the evening satisfied with having spent a most enjoyable day.

On July 7 the employés of Bovril (Limited) were entertained by Mr. J. Lawson Johnston, the chairman of the company, at his residence, "Kingswood," Sydenham Hill. The number of the party entertained amounted to 450 guests, and a very pleasant day was spent by all concerned. The visitors were engaged in all kinds of outdoor pastimes, while during the afternoon a series of sports were held, and to the prize-winners very handsome gifts were presented.

On July 7 the employés of Messrs. Stone & Stone, chemists, Fore Street, Exeter, held their annual wayzgoose. The party drove over Haldon to Chudleigh, where the famous rocks were explored, and then proceeded to visit the Bovey Tracey Potteries. Dinner was served at the Dolphin Hotel, the chair being occupied by Mr. E. F. Stone. After a capital meal the loyal toast was duly honoured, and "Success to the Firm" followed. A *char-à banc* was then obtained, and the party had a delightful drive on Dartmoor to Hay Tor Rocks, Widdecombe-in-the-Moor, Manaton, and Becky Falls, returning to Bovey Tracey, and thence to Chudleigh, where tea was partaken of at the Ship Hotel. Exeter was safely reached after a very pleasant day.

On July 6 the employés of Messrs. Gibbs, Cuxson & Co., Oldbury, to the number all told of 111, had their annual outing, driving by brakes to Kinver, passing through the pleasant villages of Kingswinford, Stewponey, and Enville. Dinner was served at the Foley Arms Hotel, almost under the shade of Stourton Castle, the woods of which were gay with long rows of purple foxglove. The chair was occupied by Mr. J. C. Brewer (late pharmacist to the Birmingham General Hospital), who, in giving the toast of "The Firm," called attention to its record progress during the past year, and thanked Messrs. Cuxson and Gerrard for their kindly interest in their workpeople and the free treat given that day. Two hours of sport were indulged in, followed by a further drive through this beautifully-wooded district. Tea was served at the White Hart Hotel. The outing was altogether a great success.

The annual gathering of the employés at the chemical works of Messrs. W. Cooper & Nephews, Berkhampsted, was held on June 30 at Ashlyns, the residence of Mr. R. P. Cooper. A marquee was erected under the fine old trees in the park, and there dinner and tea were provided. Sport was the chief feature of the day's enjoyment, and in a cricket-match between the second eleven of Berkhampsted School and the Chemical-works C.C. the school proved the winners. The other competitions included quoits, needle-race, putting the weight, potato-placing race, human wheelbarrow race, flat races, skipping races (for wives), and tugs of war. The Volunteer band was in attendance, and Mr. R. P. Cooper presided over the dinner, while Mrs. R. P. Cooper, Mr. and Mrs. R. A. Cooper, Mr. W. F. Cooper, and the Misses Cooper were all present during the day, and took an active interest in the whole proceedings. At the close of the sports the prizes were distributed by Mrs. R. A. Cooper.

On July 7 the employés of Messrs. Wyleys (Limited), of Coventry, were entertained at a garden-party by the managing director, Mr. W. F. Wyley, at his residence, The Charter House, Coventry. Various games and amusements were indulged in by the visitors, and dinner was served in a

spacious marquee erected in the grounds adjoining the ancient and interesting residence, and was followed by a smoking-concert, ably contributed to by various members of the staff. During the evening one of the employés, Private J. Black, 17th Lancers, was presented with a purse of money, pipe, matchbox, and stock of tobacco, subscribed for by fellow-employés, prior to his rejoining his regiment. In making the presentation, Mr. Wyley announced his intention of adding a further sum to that already subscribed, and stated that 10*s.* per week would be paid to the Reservist's wife during his absence. A vote of thanks to the firm was proposed by Mr. Bennett on behalf of those present.

Personalities.

THE Holborn Board of Guardians have appointed Mr. Norton Colbeck, of Kilburn, as their dispenser at the Holborn Infirmary, Highgate, at a salary of 120*l.* per annum, his working hours to be from 9 A.M. to 6 P.M.

MR. JOSEPH BEECHAM, the Mayor of St. Helens, has just completed arrangements for taking 800 of the most deserving scholars of the town to Blackpool. The children will be provided with a good hot dinner and tea.

MR. W. DONALD SMITH, of Messrs. Smith & Sons, Madras has been in London for a few days this week, after spending a holiday in Wales. Mr. Smith goes to Scotland for the rest of this month, and will return in time to go to the Paris Exhibition in the second week of August *en route* for India.

MR. F. C. MCCOMBIE, son of Mr. C. McCombie, of 19 St. Dunstan's Hill, E.C., has again distinguished himself at King's College during the past session. In the Faculty of Science he has won the Clothworkers' Scholarship and a Sambrooke Exhibition, and he has been awarded the Carter Gold Medal for botany.

DR. G. C. LOW, whose portrait we gave last week in connection with the Roman Campagna malarial experiment, has discovered the transmission of the *filaria sanguinis hominis* (the cause of elephantiasis) from the mosquito to the human being. His discovery was one of the features of the first year's working of the London School of Tropical Medicine.

PROFESSOR CHANDLER, of New York, has been having a round of festivities since he came to London. He was one of the guests at the Chemical Club dinner last week, when Professor Petterson was entertained by the Club. On the same evening (July 5) he attended the Chemical Society, and, although it was an extraordinary meeting, the rule as to the admission of Fellows was suspended, and Professor Thorpe welcomed him in the name of the Society, and he was formally admitted as a Fellow, although he protested (amidst laughter) that he had been a life-member for thirty years. On Saturday the honorary degree of Doctor of Science was conferred upon Professor Chandler by the Oxford University.

Marriage.

DOIG—WORRALL.—At Ward Road Wesleyan Church, Dundee, on July 4, by the Rev. William Griffiths, William Doig, jun., younger son of Bailie Doig, chemist, Dundee, to Lydia Mary, eldest daughter of Mr. George Worrall, Beechwood, Wormit.

Deaths.

AUGUSTIN.—Mr. H. Augustin, chairman of Scherings, Berlin, died on July 7.

BORLAND.—At Troon on July 10, Mr. John Borland, pharmaceutical chemist, Kilmarnock. Aged 80. Mr. Borland had been in his usual health until a fortnight ago but of late years his strength had been considerably impaired. He had been associated for sixty-six years with the firm of Rankin & Son (now Rankin & Borland), where he served his apprenticeship, and where for a good many years he had had the able assistance of his son. Mr. Borland had been a member of the Pharmaceutical Society since 1859, having passed the Major examination a short time previously. In those early days he took an active interest in pharmaceutical matters, and was wont to write papers on galenical and chemical subjects. Later his connection with the Society became more intimate, and in 1876 he joined the Board of Examiners for Scotland, and was greatly esteemed by his colleagues there. He became a member of Council six years later, and served the Society in that capacity for six years. It was during his term of office that those stormy proceedings occurred which resulted in the recognition of the North British Branch on its present footing. The world of pharmacy is poorer by the death of Mr. Borland, for he was an ideal pharmacist. Almost entirely self-taught, he continued a student throughout his life, although never neglecting a close personal attention to his business. He was a man of wide culture and rare scientific attainments. He was a Fellow of the Linnean, Chemical, and Microscopical Societies, and always took a warm interest in their proceedings. He had long taken a prominent part in the management of the Philosophical Institution and Library of Kilmarnock, having been chosen to compile the catalogue of the latter. But it was only those who knew him well who could gauge the extent and the variety of his attainments, and one who was thus intimate with him described him as a "specialist on every subject." He was a recognised authority on botany; this was the subject in which he examined while on the Edinburgh Board, but he was also an accomplished chemist in the highest sense of that word, an ardent microscopist, and a devoted archæologist. He was well up in Latin and Greek, had far more than an inkling of French and German, and he had quite a remarkable acquaintance with general literature. In character and disposition Mr. Borland was singularly amiable; he was modest and self-effacing to a degree, seldom taking part in public discussion, yet he was always the upright, honourable gentleman. But, as hinted before, it was only those who knew him intimately who could appreciate either his attainments or those graces of character which rendered him the most genial and the most reliable of friends. He is survived by a widow and a son and daughter.

BRELSFORD.—At Oldham, suddenly, on July 7, Mr. Charles Brelsford. Aged 46. The late Mr. Brelsford, who carried on business as a chemist in partnership with his brother under the title of "Mark Brelsford," was well known and respected in Oldham and district.

DODD.—After a long and painful illness, Louisé, the wife of Mr. Richard Jefferson Dodd, chemist and druggist, 146 Edgware Road, W. Aged 34.

EVANS.—On July 6, at Temple Gate, Bristol, Mr. John Evans, chemist. Aged 52.

JAMIESON.—At Kilnheugh Wynd, Auchtermuchty, on July 5. Mr. David Jamieson, chemist and druggist (retired). Aged 83.

KIRKPATRICK.—At Lagbuie, Shandon, on July 9, Mr. Andrew J. Kirkpatrick, of Kirkpatrick, Barr & Guthrie, chemical-merchants, Cullum Street, E.C. The late Mr. Kirkpatrick, whose residence was in Glasgow, was trained in the firm of Robertson & Caldwell, chemical-brokers and merchants, Glasgow, in which firm he ultimately became a partner. The firm was afterwards known as Caldwell & Middleton, and on the retirement of Mr. Caldwell, Mr. Middleton took Mr. Kirkpatrick into partnership. After the death of Mr. Middleton the title was again changed to A. J. Kirkpatrick & Co. Mr. Kirkpatrick did much useful public work and took particular interest in the Royal Glasgow Institute of Fine Arts. From 1889 to 1898 he filled the office of Chairman of the Council of that body, and in the latter year he was elected President. He was a liberal patron of the Arts, and possessed a valuable collection of paintings. He was a member of the executive of the coming International Exhibition in Glasgow, being sub-convener of the oil-paintings section. Mr. Kirkpatrick was also a lover of books and a discriminating collector. He never took any prominent part in municipal affairs, and was a Conservative in politics. He was a Justice of the Peace for the county of the city of Glasgow and a director of several industrial and commercial concerns. He leaves a widow and a family of three sons and four daughters.

SIMCOCK.—At Hulme, Manchester, on July 9, Mr. William Holliwell Simcock, chemist and druggist. Aged 59.

Business Changes.

Notices are inserted free in this section if properly authenticated.

Mr. W. Thorley, chemist, has opened new premises at 27 Crouch Hill, N.

A New Pharmacy has been started at 11 Acre Street, Castleford, by the Castleford Drug Company.

Mr. H. Wells, chemist, has taken over the old-established business of Mr. T. Simnett, at 70 Chapel Street, Clerkenwell, N.

Mr. A. A. Gillitt, pharmaceutical chemist, has taken over the business lately carried on by Mr. W. Batchelor at 152 Milton Road, Gravesend.

Hines Drug Company have taken the premises at 83 High Street, Whitechapel, which they will occupy as soon as alterations are completed.

Messrs. Boots (Limited) are fitting up a new branch, which will shortly be opened, at the corner of Middle St. Alban's Street and St. Mary Street, Weymouth.

Mr. A. B. Payton has just opened a pharmacy in the Crown Hotel Buildings, Harrogate. It has been handsomely fitted by Messrs. Philip Josephs & Son, Old Street, E.C.

Messrs. Clay, Paget & Co. (Limited) have removed from 20 Bentinck Street, Cavendish Square, W., to 23 Ebury Street, Eaton Square, S.W. They have also established a milk-laboratory at Hounslow, Middlesex.

The old-established business of Messrs. Leath & Ross, 58 Duke Street, Grosvenor Square, W., has been purchased as from June 1 by Mr. Septimus Walgate, pharmaceutical chemist, who has been interested in the firm during many years. The branch in Old Jewry, E.C., has been closed.

Mr. R. Knight (formerly dispenser at Hairsine & Co.'s., Haymarket, W.), has recently opened a new pharmacy at 70 Buckingham Gate, S.W., fitted in good style (all mahogany) by Mills. Five hundred Pretoria souvenir sachets were given away to the first customers, and are now being inquired after.

Messrs. Berdoe & Co., 35 Jewry Street, Fenchurch Street, E.C., inform us that the following are amongst the recent trade transfers effected by them:—Mr. T. A. Hosketh sold his business at 197 St. James Road, Croydon, to Mr. H. L. Smith, of Kettering.—Mr. H. F. Drake, of Dunmow, disposed of his business to Mr. W. G. Skoulding, late of Bury St. Edmunds.—Mr. W. H. Leidlam purchased the business of Mr. S. H. Tinsley at 6 West Street, Fleetwood, Lancashire.—Mr. T. Oldham Barlow purchased the business lately carried on by Mr. William Duckworth at Market Place, Basingstoke.—Mr. J. E. Brindley Grice disposed of his business at Rosendale Road, West Dulwich, to Mr. C. E. Boultbee, of Sutton.—Mr. W. Holt, of Atherton, purchased the business of Mr. H. Amoore at 4 Lansdowne Crescent, Bournemouth.—Mr. G. W. Widdowson disposed of his business at High Street, Aldeburgh-on-Sea, to Mr. W. E. Martin, late of Wood Green.

Trade Notes.

Mr. Henry C. Quelch, 4 Ludgate Square, E.C., has been appointed the sole agent for the United Kingdom for Mr. G. Arezzo, of Messina, manufacturer of essential oils.

Messrs. Parke, Davis & Co. will close their London office and warehouse, 111 Queen Victoria Street, E.C., on Saturday, July 21, on the occasion of their annual outing.

The Surrey Chemists' Company, of Chertsey and Weybridge, have just opened a new and extensive mineral-water factory in Guildford Street, Chertsey, fitted with new machinery by Messrs. Herring & Son. Specialities of this firm are lithia, potash, seltzer, and medicated waters, but besides this a large trade is done in all minerals—in fact, rapidly increasing business has brought about the erection of the new establishment.

New Price-list.—Messrs. May, Roberts & Co., druggists' sundriesmen, 9 and 11 Clerkenwell Road, E.C., send us a copy of their new price-list, which is to be distributed to the trade this week. The list grows in size at each revision, owing to the number of new articles admitted, which additions, with the many corrections in prices, make it one of the most complete lists before the trade. Chemists who do not receive a copy of the list should address a request for one to Messrs. May, Roberts & Co.

For Highland Tourists.—The *Oban Visitors' Guide*, that *sine quâ non* of West Highland tourists—pharmaceutical or otherwise—again appears to remind us that the Scottish tourist season is at hand. The booklet is as interesting and full of information as ever—perhaps more so; at any rate, it seems to contain all that one can possibly want to know about the lovely district which it covers, and any pharmacist who so desires it can have a copy post free by writing to the publisher, Mr. Samuel Lawrence, chemist, 101 George Street, Oban, N.B.

A Fine Scale Pepsin is now being put on the market by Messrs. Randall & Son, of Southampton. The pepsin appears to be prepared by an aseptic method, for it is devoid of the peptonic odour which characterises many commercial pepsins and is evidence of the presence of membranous matter. The pepsin occurs in pale yellow translucent scales, and dissolves readily in cold water, forming an almost odourless solution. We find its digestive power to be fully that required by the Pharmacopœia, and it will be observed from the other characters of the pepsin that it is especially suitable for the preparation of liquor pepsini and vinum pepsini.

Nestor Fluid.—During this hot weather, when the use of disinfectants in the household is a necessity, the soluble disinfecting-fluid manufactured by the Nestor Sanitary Fluid Company, 16 Crescchurch Lane, E.C., deserves attention. This fluid is prepared from the phenolic fractions of coal-tar distillates, and contains a large percentage of antiseptic bodies, so that when about a tablespoonful of it is mixed with a quart of water, a disinfecting-solution is obtained suitable for use in water-closets, and for sprinkling drains and other places where smells originate. There is no question about its efficacy in subduing offensive odours, and we have evidence that it at the same time destroys pathogenic and other micro-organisms. The fluid is put up in tins to retail at 1s. upwards. It is, we understand, largely used on shipboard, as it fulfils the Board of Trade requirements in respect to disinfecting-fluids. Further particulars in regard to it may be obtained from the company at the above address.

Morphia in China.

In consequence of the growth of morphiomania in China (morphia-injecting is said to be a ten-times-worse evil than opium-smoking), it is again officially proposed in Shanghai to impose the following regulations for the restriction of the import of morphia:—

I. The quantity of morphia imported for annual use will be fixed according to the investigation which will be previously made to ascertain the quantity which is necessary for the composition of drugs in foreign pharmacies and for the use of foreign doctors, when required.

II. The Customs Office will only grant to foreign pharmacies a permit to import morphia, and in case clandestine sale of morphia is effected in Chinese pharmacies, when discovered it will be subject to a severe punishment.

III. The Customs Office shall inquire as to the existing number of foreign pharmacies established in Shanghai and make its registrations.

IV. Only foreign pharmacies can sell morphia on presentation of foreign doctor's bill. The selling of morphia by other shops will be punished.

V. The composition lately made by European and Chinese pharmacies against the vice of smoking opium, as the tablets, "Mei-hoa-san" and other mixtures of morphia which are pernicious to the health, are henceforth prohibited.

VI. From the day of the enforcement of the present regulations, and in case this restriction cannot be applied to morphia *en route* to China, the importer of the said cargo must inform previously the Customs of the detailed number of morphia boxes, their weight, the day of departure, the name of the steamer, in order to grant, when arrived, as a special favour, the permit to land and to sell it according to the present regulations. In case of not doing so the permit will not be granted.

The present regulations, after being approved, will be submitted to the perusal of the High Commissioners of Northern and Southern Trade in order that they may enforce it in the Imperial Maritime Customs.

CORRESPONDENCE

TO CORRESPONDENTS.—Please write clearly and concisely on one side of the paper only. All communications should be accompanied by the names and addresses of the writers. If queries are submitted, each should be written on a separate piece of paper. We do not reply to queries by post, and can only answer on subjects of general interest.

Morphine-derivatives.

SIR,—I do not wish in any way to detract from the value of the "Researches on Morphine: I.," by Schryver and Lees, and it is necessary to wait for the complete paper before venturing on criticism. It may not, however, be amiss to point out that the preliminary sentence of the official abstract—"the authors have found that the alcoholic hydroxyl group in morphine is readily replaceable"—seems to claim too much. The hydroxyl group has been replaced long ago. Without referring in the meantime to the earlier researches, Professor Stockman and myself prepared a chlorinated derivative of morphine, which we did not fully investigate, but it is stated in our paper (*Proc. Roy. Soc. Edin.*, July 7, 1890), that both hydroxyls were replaced, and that the chlorination had possibly gone farther.

I am, &c.,

Edinburgh, July 10. D. B. DOTT.

Tinctures.

SIR,—May I point out an error in Mr. Fletcher's valuable table on the sp. grs., &c., of tinctures in your last issue? The sp. gr. of tr. nucis vom. is given as 0 853, which is an abnormally low figure, and which does not correspond with the percentage of proof spirit, which is given as 111·4.

Yours faithfully,

Exeter, July 10. H. WIPPELL GADD.

SIR,—In the interesting "Tables of Tinctures," by Mr. F. W. Fletcher, and "Composition of Tinctures," by Mr. C. G. Moor and Mr. M. Priest, published last week, the authors simultaneously specify the alcoholic strength and sp. gr. of the menstruum of tr. opii as being 45 per cent. alcohol (by volume), sp. gr. 0 944. This, I imagine, must be erroneous, for the B.P. menstruum is "equal volumes of 90-per-cent. alcohol and water"; moreover, 45-per-cent. alcohol, sp. gr. 0·9436, is directed to be made by mixing 100 fl. oz. of 90-per-cent. alcohol with 105⅓ of water.

Peterborough. WM. ELBORNE.

SIR,—I shall be glad if those of your readers who have occasion to refer to my paper on "Tinctures" in last week's issue will note the following corrections in the table:—

Column II.

Tinct. colchici sem., for 0·981 read 0·961.

Column V.

Tinct. cubebæ, for 135·2 read 141·2.
Tinct. podophylli, for 121·3 read 151·3.

Yours faithfully,

July 9. FRED. W. FLETCHER.

A Pharmaceutical Phœnix.

SIR,—If Patrick Y. Cosgrave and the assistants of Manchester and elsewhere will communicate with me, between us we shall make the Assistants' Union the energetic body that it ought to be. We need energetic members all over the country, and have offices in the Union vacant for their acceptance. In Ireland, as yet, we have no representative. Therefore Mr. Cosgrave could not do better than call a meeting for the formation of an Irish section. The executive in London will offer him every assistance in their power, and he will see from my letter in a recent issue something of the lines upon which the Union is being worked. It seems strange that assistants who appear to know their wants so well do not combine quicker and make this Union what they wish it to be, the medium through which their commercial and social position may be improved. Here in London we have all the machinery and dormant energy necessary to effect this. All we require is more active support from assistants everywhere in the United Kingdom.

Yours faithfully,

C. E. PICKERING, Vice-President.

Moving at Last.

SIR,—After much oiling of rusty axles and shoving of crazy wheels, the pharmaceutical coach moves, but whether it is going to roll forward or backward, or whether it is merely going to settle down in a more hopeless quagmire, probably no man can truly forecast. On the whole I am inclined to think we have no great reason to be elated over last week's work. It is certainly hopeful to find that a large majority of men acting on a Parliamentary Committee have got the length of recognising that pharmaceutical legal reform is urgent; but it is very depressing to find that these same men appear, after all that has been written and said, to be utterly ignorant of the abuses to be ended, or the only reasonable way in which the faulty clauses in the Pharmacy Act can be mended. (I use the word faulty on conventional grounds. I have never been able to see that any clause in the Act is faulty.) The only reason that can be arrived at for this apparent ignorance on the part of these men consists in this—that they are so prejudiced against chemists that they only listen to our views on the subject in order that they may take a directly opposite course. After having, by a large majority, concluded that reform is necessary, they proceed to pass a clause which would leave matters infinitely worse than they are now. I do not think that we can do much by way of amending this clause. The ignorance of these men is too profound to be genuine, and probably constitutes in them that kind of blindness which cannot, because it will not, see. It is utterly impossible that so crude and unbusinesslike a clause could have been drawn up through ignorance after all the deputations which have waited on various men connected with this matter. The clause does not demand that the manager, but only an assistant, be qualified. It does not demand that a company having 200 shops keep more than one assistant to cover the lot. His name must be posted inside, but whether the same name may be posted in 200 shops or only in one this clause sayeth not. In short, there never was so mad a clause drafted in connection with any Bill, and whether it was drafted in ignorance or drafted according to knowledge, it is alike dangerous and immoral. It is dangerous to the public, and immoral in that it confiscates all our vested interests in pharmacy—interests which have grown up under a perfectly plain Act of Parliament during forty years. As there is not likely to be much discussion on any clause of this Bill when it comes before the House, I am inclined to think that the Pharmaceutical Council has done well to resolve simply to object to the clause as it stands. I have grave doubts, however, about the Council being able to object effectively. These matters appear to be all handed to an entity called the Law and Parliamentary Committee, but after a long observation of the Council and its ways, I am inclined to think this Committee is a veritable Mrs. Harris. At all events, a great deal has been said about it recently, but I cannot find that it has ever done much.

The position of the Council in regard to the sale of carbolic acid is far more difficult to understand. The suggestion of the Privy Council, as you have pointed out, and as Mr. Wootton pointed out, entirely undermines the Pharmacy Act. It is not enough that the case is urgent; it is not enough that the Privy Council can fall on no other method; what we should do is to stand by our Act. We have offered to place carbolic acid on our schedule in order to safeguard the public, but the Privy Council has out of a niggardly spirit refused our offer, as it might in their opinion lead to a monopoly. Very well, let them find a way out of their own difficulty. The principle adopted by them in regard to carbolic acid might work in a way; but does the Council fail to see that having adopted it in regard to carbolic acid, they cannot refuse it in regard to weed-killers, insecticides, and a whole host of other preparations? It is quite true that these preparations are not of much value from a monetary point of view to chemists, but in view of the public safety they are of tremendous importance. I can assure the Council that at the present time, although I am forced to put a Winchester of

liq. arsenicalis in a poison-cupboard, there is more arsenic in packet and in solution being sent out in any small country parish during one day than there is used for medicinal purposes in the whole country during a year. It is put up in, say, 20-gal. wooden casks, by men who have but a faint appreciation of its danger; it is railed and carted all over the country by men who have no special knowledge regarding it.

But for the timely warning given by the qualified man here and there, carelessness is bound to creep into such a trade as this. A cask gets old and leaky, a bung is imperfectly driven home, an ignorant workman knocks the cask about, it is placed in a leaking condition in a provision-cart, the solution is left about in tubs and buckets in the grounds, implements are not washed out, and, in short, the absence of a timely note of warning from the man who knows is bound to lead to disaster. Did the Pharmaceutical Council think of all this when it rushed to meet the Privy Council half way? I think not. The Pharmacy Act was never intended to safeguard the public against dispensing errors only; it was intended to save the public from poisons in any shape or form, however administered or partaken of. The new principle accepted blindly and hastily by the Pharmaceutical Council destroys the chemist's power to safeguard the public almost entirely, and shatters the very foundations of the Pharmacy Act.

Dumfries, July 9. JAMES REID.

Co-operation with Ireland.

SIR,—Dr. Symes has not forgotten the question which I raised concerning the advisability of co-operation with the Irish Pharmaceutical Society, and which he expressed himself in favour of in his reply in your issue of May 12. I hope your readers noticed in that reply how he had been answered a few months previously when he raised the question of co-operation. Then let them compare that answer with the one given to Dr. Symes by the new President.* I hope the doctor will not be discouraged by such evasive answers, but will, at the first opportunity, raise the question again and discover why they did not exactly know the position which their Irish friends took up on this question, or how far they were in accord with the Council. Mr. Newsholme's answer may be construed thus:—

(1) Our Society has not troubled to ask what the views of the Irish Society are, or

(2) It has inquired, and the Irish Society has refused to give any information on the subject, or

(3) The Irish Society has replied, but has stated its position in such a businesslike manner that the British Council cannot comprehend it.

Which is the right solution of the matter it is not for me to say. One fact must be patent to any ordinary mortal, and that is the great waste of energy which is bound to result from the want of combination between the two Societies. It probably will be found to be opposition when the Companies Bill comes up for its third reading. The result of last week's Council-meeting is very disappointing. I cannot understand Mr. Cooper's new attitude on Clause 2 after his election-address (*vide C. & D.*, April 14, 1900). It was due to his progressive opinions on the Companies Bill that he secured my vote, together with a large number of other votes. On June 2 our official organ even gave us a draft of two clauses as substitutes for 2 and 3 of the Companies Bill. They were very near the desired mark, and would have formed a valuable basis for amendments to the Bill. This was long after Mr. Ritchie had expressed his determination to refuse any amendment and to delete the clauses. If there was sufficient cause for the official journal to anticipate the action of the Standing Committee, surely members of the Council have no excuse for their reactionary policy. As a member of the Society I feel that we must now back up the latest decision of the Council to oppose the clause. If there is a catastrophe as a result, we shall know on whose heads the blame will lie—not on Messrs. Hills, Glyn-Jones, and Wootton. The reward of apathy will come in due time. We may have to wait till next May for it. Yours faithfully,

ONE AND ALL. (129/4.)

* The remarks referred to are thus reported:—

C. & D.	*P. J.*
The President, in regard to acting with the Irish Society, asked if Dr. Symes knew them to be in accord; otherwise how could they act together.	The President, in putting the original motion, said they did not exactly know the position which their Irish friends took up on this question, or how far they were in accord with the Council.

Warned, not "Waived."

SIR,—Referring to the paragraph under the heading "Irish News," in which our name is mentioned in your issue of July 7, we think it right to state that the Local Government Board did not direct the Guardians to *waive* the contractors [which was how it was reported to us.—EDITOR.], but they did direct them to formally *warn* us that serious notice would be taken if tincture of ferric chloride was supplied again that was not in exact accordance with the requirements of the British Pharmacopœia. Our reply was that it was not fair we should be placed in such a position through an obvious error in the Pharmacopœia, because, as every chemist knows, it is utterly impossible to have either the liquor or the tincture of ferric chloride in strict accordance with the Pharmacopœia as regards both sp. gr. and the amount of ferric oxide present. If the sp. gr. is correct the amount of ferric oxide is too low, and *vice versâ*. Probably this would form the subject of a very useful discussion at the forthcoming British Pharmaceutical Conference. [It will see page 51.—EDITOR.]

Yours truly,
JOHN CLARKE & CO. (LIMITED),
Belfast, July 10. Per M. MARTIN, F.C.S., Ph.C., &c.

Photographic Slowness.

SIR,—I am afraid the experiences of Mr. Goldby are not exceptional; mine coincides with his in every detail. One rarely gets an order complete, and that generally takes a week to execute. A marked difference to drug-houses, who, as a rule, despatch same day as order is received. I ordered a ½-plate set (advertised largely) on June 1, and up to time of writing have not received it; the excuse is that there is a lot of orders for that particular camera on hand. One cannot expect customers to wait three weeks. I cannot help feeling that the business is not conducted quite as it should be. I have had within the last few months three one-guinea hand-cameras, and in neither case were they light-tight. I cannot understand makers sending out such stuff. One does not expect to get the best of everything for a guinea; but I think we have the right to expect a camera to work without spending two or three hours over each one.

Yours truly,
DEVON. (127/73.)

SIR,—I have recently had a little difference with a leading firm of dry-plate makers, the subject of which, I venture to think, is not without interest to many readers of the *C. & D.* An enthusiastic amateur, who has not, perhaps, spent a shilling in photo goods outside my shop for the last three or four years, wrote the firm in question to inquire what plates would be recommended for a twelve months' sea-trip. The reply was handed to me: it contained instructions that the plates taken "should be procured direct from here." This is a firm who print in their handbook, and underline with red ink, "We protect the dealers . . . as we never cultivate direct business," &c. I have asked permission to publish the correspondence which has passed between us *re* the above, but this "they decline to agree to."

Yours faithfully,
Sutton, Surrey, July 10. FRANCIS T. SANDERS.

The Iodine Ring and Japan.

SIR,—I have noticed in one of the latest numbers of your journal that a project is now on foot amongst the leading iodine-manufacturers with a view to secure prolongation of the terms of the syndicate. It is evident that the majority of that convention is sadly in want of proper advice regarding the present conditions in Japan. Now, for the benefit of all concerned, I desire to recite the whole facts, and sincerely request you will have the goodness of granting me space in your valuable columns. I claim to be well posted on the innermost truth of the subject, as I am personally in the

trade, which ought to be a sufficient guarantee for the reliability of my statements.

The recent appearance of Japanese iodide and iodoform in London has startled the syndicate, which had hitherto assumed that its interests were safely looked after by a specially-appointed representative in Yokohama. The apparent slow progress attendant upon the success of the syndicate in its present campaign against Japanese makers, notwithstanding the great sacrifice it has so far made in cutting down the price to its lowest extremity, must have aroused the syndicate to the importance of instituting an exhaustive inquiry. I am, however, astonished that nothing has as yet been done in that direction. By mere chance the existence of a strange arrangement between the representative of the syndicate and two Japanese druggists in Yokohama recently came to the light. It appears that under this agreement those Japanese druggists have the privilege of enjoying sole monopoly in iodine-preparations, with special and advantageous quotations. In return they bind themselves to purchase all chemicals they require from the syndicate's agent.* I have it from a very reliable source that the syndicate has authorised its representative for some time past to sell the potassium iodide as low as 2 80 yen (5*s.* 7*d.*) per lb., whereas the Japanese makers stand firm at 4 yen (equal to about 8*s.*), which is the value actually paid by other wholesale merchants (save, of course, the druggists referred to). Considering the high prices at which these merchants have been compelled to purchase quinine and other common drugs, as without this enforced sale being agreed to the supply of iodine-preparations is denied them—they have not reaped much advantage. This intrigue further stipulates that they will always follow the ups and downs of Japanese quotations and quote at par, which ensures them, as a matter of fact, a fair proportionate margin of profit. Under these circumstances the Japanese competitors are evidently undisturbed by the existence of the syndicate, which up to the present moment has failed to hit its antagonists a severe blow. The truth of this allegation is amply substantiated by the fact that the manufacture of iodine-preparations in Japan is now in full swing, especially potassium iodide, which has found its way to London; but, thanks to its bulk being taken up in private sales, the London market has been affected little by it. The Japanese manufacturers now regard the domestic demand for their product with indifference, and are straining every effort to export on a larger scale. It is not difficult to come to the conclusion that if the syndicate really means to send the Japanese interference to the wall for good, it can readily accomplish its object by simply underselling; but in doing so it would seriously impair the personal interest of its representative, who is naturally desirous that present circumstances should be maintained.

I would suggest that the best thing the syndicate can do is to sell iodine-preparations as cheap as circumstances permit, special care being taken that they shall not be employed as a profitable allurement for clearing away other chemicals, and in the event of re-exportation, whereby the European and American markets would be threatened, the simple alternative would be to withdraw the sale for a time. In the meantime the Japanese will be kept busy attending to home requirements, allowing no surplus for export. This would leave both American and European markets free from any competition, and the syndicate could have peace at least for several years to come. If, after a certain time, it comes to the knowledge of the syndicate that the Japanese are again seeking customers abroad as a consequence of abundance of supply, I expect to find that body in full possession of a clever scheme to check all such endeavours, and crush down the ambition of Japanese speculators.

I am informed that the syndicate has made further concessions to its customers by offering an adjustment of falling clause for three weeks on all sales, but I am afraid this will not support the desired ends of driving Japanese iodine from the London markets, as the Japanese will be ready to risk a month or even more on their shipments whenever circumstances render such a course necessary. Before closing let me particularly mention that I do not, nor have cause to, harbour any personal prejudice against the present agent of the syndicate, for whose interest, as well as for the sake of justice, I have been prompted to address you in the belief that this will receive the careful attention of parties interested in the movement, and if anybody regards the foregoing statement sceptically the best and wisest way is to despatch, in strict secrecy, an impartial, straightforward man to Japan to personally conduct investigations.

Yours faithfully,

Kobe, June 9. PRO BONO PUBLICO. (128/4)

* It is months ago since this was exposed in the *C. & D.*—EDITOR.

Miscellaneous Inquiries.

We endeavour to reply promptly and practically to trade questions of general interest, but cannot guarantee insertion of replies on a particular date, nor can we repeat information given during the past twelve months.

102/74. *Hydrocarbon.*—You will find a good formula for petroleum-emulsion in "Pharmaceutical Formulas."

103/12. *Mona.*—**Buckskin may be Dyed Khaki,** temporarily at all events, by means of the official solution of potassium permanganate.

101/32. *O. N.*—**Spirit-of-nitre Substitute:—**

Sodium nitrite	ʒij.
Old sweet spirit of nitre	℥ij.
Glycerin	℥ij.
Water	℥xvj.

Mix.

Dose: Half to a whole teaspoonful.

76/46. *F. R. P.*—We note your remarks about the patent lamp-wick, and will look the matter up.

95/67. *Clinical.*—There is no medicine that we know of which will assist in developing the bust.

96/53. *Insect.*—You will get rid of the fleas in the house by thoroughly disinfecting it with a formic-sulphugator.

99/49, *J. N. G.*, and 109/14, *Xylonite.*—The number of **Chemists' Shops in the United Kingdom** is an unknown quantity, but is generally reckoned by those who have inquired into the subject as under 10,000. There are 16,000 registered chemists (or thereabouts) in the three countries, but not half of them are in business on their own account.

99/17. *A. N.*—The quantity of musk in the **Rat-bait** (THE CHEMISTS' AND DRUGGISTS' DIARY, 1900, page 269) is quite correct. It is not much when you consider one-sixteenth part of it is mixed with a pound of oatmeal.

93/38. *Tap-water* (Budapest). — The ropiness of the **Cucumber-cream** appears to be due to viscous fermentation. In compounding it use recently sterilised water.

95/53. *Quærens* writes in regard to **German and English Soap:**—"I polish all soap before putting in exposure-tray on counter, and have been struck by the irritating dust given off by the soap of a well-known German make, and recognise it as the powdered soapwort (*Quillaia Saponaria*); this never occurs with English-made soaps that I stock. Can you say if its use is common in soap-manufactures?" [This is not common, and is not a good addition to soap, we should think. How did "Quærens" prove the presence of the quillaia?]

11/6. *S. W. P.*—It is against our rules to publish formulæ in imitation of proprietary articles.

Information Wanted.

Postcard replies to any of the subjoined inquiries will be esteemed.

126/39. Who are the makers of Perules?

123/37. Address of a cork-cutter who supplies hand-cut corks?

127/60. Who is London agent for 4-oz. French white flint Mexican bottles No. 254?

130/12. Who are makers of linen bags for birdseed, and of the "Acme" brand of camphor-ice?

Trade Report.

NOTICE TO BUYERS.—The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of drugs and oils vary greatly, and higher prices are commanded by selected qualities even in bulk quantities. It would be unreasonable for retail buyers to expect to get small quantities at anything like the prices here quoted.

42 Cannon Street, London, E.C.: July 12.

STOCKTAKING accounts for a quiet tone which is felt in some sections of business, but the briskness in other departments more than compensates. Chemical manufacturers and dealers are busy, and those who handle opium have had a busy week of it, as large orders have come from China—of all places in the world—and enhanced prices have been paid for druggists' qualities. Quinine commenced to boom and is dearer, menthol holds its own (we discuss the position editorially), and ergot is firming. In Hamburg the price of refined camphor is lowered: had that not happened English refined would have gone up 1*d.* this week. The market is said to be cleared of buchu, and senega shows some weakness in spite of strong reports from New York. The following are the principal changes of the week:—

Higher	Firmer	Easier	Lower
Ammonium sulphate	Buchu	Cubebs	Oil, orange
Cyanides	Ergot		Oil, star-anise
Damiana	Menthol		
Oil, bergamot	Oil, castor		
Opium			
Quinine (seconds)			
Spermaceti			
Tannin			

Arrivals.

The following drugs and chemicals have arrived at the principal British ports from July 5 to 11 (both inclusive):—Aloes, 290; aniseed oil, 5; argol, 280; arsenic, 81; boracic acid, 19; camphor, 35; camphor oil, 80; cardamoms 39, (seed), 20; cassia fistula, 19; cassia oil, 2; castor oil, 60; castor-seed, 17,408; cinchona, 141; cinnamon, 35; cocaine, 7; cod-liver oil, 181; colocynth, 8; cumin-seed, 46; divi-divi, 69; dragons-blood, 13; ergot of rye, 15; fennel-seed, 84; fenugreek-seed, 625; gambier, 2,471; gum arabic, 527 (asafetida) 5, (benjamin) 41, (copal) 7, (guaiacum) 10, (olibanum) 43, (sandarac) 11, (thus) 170, (tragacanth) 146; honey, 463; ipecacuanha (Cartagena), 1; limejuice, 80; lime oil, 1; limes, 61; liquorice-juice, 23; poppy-heads, 10; quinine, 5; saccharin, 1; sarsaparilla, 42; senna, 7; soy, 122; tamarinds, 14; triticum-root, 10; turmeric, 291; vanilla, 7; wax, bees', 84; wax, ceresine, 100.

Cablegrams.

SMYRNA, July 11. 11.30 A.M.:—Since last week's sales (220 in all) there has been further business to the extent of 80 cases of old and new, the former selling at 8*s.* 8*d.* to 9*s.* per lb. and new at 8*s.* 3*d.* to 8*s.* 6*d.* There are many buyers in the market, and prices are advancing.

* * * *

HAMBURG, July 12, 10.19 A.M.:—Large American orders for ergot of rye have stiffened this market considerably, and the stocks are nearly exhausted. Menthol also is in a firmer position as numerous consumptive orders are in the market, and there are no forward offers. Agar-agar is 490m. per 100 kilos. Star aniseed is 195m. per 100 kilos. Cassia and cassia oil are both dearer. Refined camphor in second hands is quiet at 465m. per 100 kilos.

NEW YORK, July 12, 3.25 P.M.:—The tone on this market is quiet, with the exception that the recent advance in Chinese produce has had a drop. Opium is dull at $3.00 per lb. Buchu is hardening, and is now 15c. per lb. Serpentary-root is firmer at 28c. per lb.; jalap is strong at 12c., and cubebs are higher at 12c. per lb. Senega-root is quiet at 33c. per lb.

* * * *

AMSTERDAM, July 12, 3.45 P.M.:—The auctions of cinchona-bark held here to-day consisted of 4,418 packages (4,984 in June) weighing 394,958 kilos. Of the above-mentioned quantity 4,275 packages were disposed of at an average unit of 10·80c. per half-kilo., against 10·35c. paid at the June auctions. The following were the approximate quantities of bark purchased by the principal buyers:—English and American factories, which purchased the equivalent of 6,550 kilos. quinine sulphate; Brunswick factory, 2,135 kilos.; the Mannheim and Amsterdam factories, 3,839 kilos.; the Frankfort-on-Maine and Stuttgart factories, 2,958 kilos.; and various buyers, 3,066 kilos. The prices paid for the manufacturing ranged from 8c. to 92¾c. per half-kilo., and for druggists' from 18¼c. to 52c. per half-kilo. The tone of the auctions was firm.

Heavy Chemicals.

[*These prices are for market-centres other than London.*]

A rather quiet, but generally steady, tone is the prevailing feature in the heavy-chemical market just now. There is, however, a greater disposition on the part of buyers to cover forward requirements in view of the possibility of still higher prices ruling. Export business is rather quiet. Alkali exports last month were less than in June 1899, but on the first six months of the year the quantities of alkali and also bleaching-materials are heavier than during the corresponding period of both 1899 and 1898.

ALKALI-PRODUCE.—The demand for bleaching-powder has fallen off somewhat, and rather lower figures are now being accepted. Softwood casks on rails, 6*l.* 10*s.*, and f.o.b. Tyne or Liverpool 6*l.* 10*s.* to 6*l.* 15*s.* Caustic soda, however, is very firm, and with good inquiry stands unchanged, 76 to 77 per cent., 11*l.* 5*s.* to 11*l.* 10*s.*; 70 per cent., 10*l.* 2*s.* 6*d.* to 10*l.* 7*s.* 6*d.*; and 60 per cent., 9*l.* 2*s.* 6*d.* to 9*l.* 7*s.* 6*d.*, f.o.b. Liverpool. Soda-crystals continue to move well at unchanged rates of 2*l.* 17*s.* 6*d.* to 3*l.* per ton, Tyne, and 3*l.* 2*s.* 6*d.* per ton, f.o.b. Liverpool. Ammonia alkali in steady demand at 4*l.* 7*s.* 6*d.* to 4*l.* 12*s.* 6*d.* per ton in bags, free on rails, and 4*l.* 15*s.* per ton, f.o.b. Liverpool. Bicarbonate of soda in brisk request at 6*l.* 7*s.* 6*d.* per ton, f.o.b. Liverpool in 5-cwt. casks, and 6*l.* 15*s.* to 7*l.* per ton in 1-cwt. kegs. Yellow prussiate of potash tends a shade lower, but at the time of writing best Lancashire makes are still quoted at 8*d.* to 8¼*d.* per lb. Saltcake is very quiet, present figure is about 22*s.* 6*d.* to 23*s.* per ton, free on rails in bulk. Chlorates are quiet at 4¼*d.* to 4½*d.* per lb. for potash, and 4½*d.* per lb. for soda. Hyposulphite of soda firm and in steady demand; casks, ⅞ cwt., 6*l.* 15*s.* to 7*l.* 2*s.* 6*d.* per ton, and 1-cwt. kegs, 7*l.* 10*s.* to 7*l.* 17*s.* 6*d.* per ton. Sodium sulphate, Glauber's salts, unchanged, at 30*s.* to 32*s.* 6*d.* per ton in bags free on rails. Silicates of soda very firm, with advancing tendency, 140° Tw, 4*l.* 2*s.* 6*d.* to 4*l.* 7*s.* 6*d.* per ton; 100° Tw, 3*l.* 15*s.* to 4*l.* 2*s.* 6*d.* per ton; and 75° Tw, 3*l.* 5*s.* to 3*l.* 12*s.* 6*d.* per ton f.o.b. Tyne or Liverpool, in usual casks, with usual extras for other packages. Soda-ash steady, and moving well, 52 per cent., 5*l.* 5*s.* to 5*l.* 10*s.* per ton f.o.b. Tyne.

BICHROMATES OF POTASH AND SODA are still very unsettled. Present nearest figures are about 3½*d.* and 2¾*d.* per lb., less 2½ per cent. Glasgow for home deliveries for potash and soda respectively, and ¼*d.* per lb. less for export.

SULPHATE OF AMMONIA is steadier again, and rules from 5*s.* to 7*s.* 6*d.* per ton higher than last quotations.

BENZOLS are also firmer, and a shade higher, 90 per cent., 8½*d.* to 9*d.*, and 50 per cent., 10*d.*

LINSEED AND COTTONSEED CAKES are steadily maintained in price, and general demand is good. Linseed, 95 per cent. pure, 8*l.* 5*s.* to 8*l.* 10*s.* per ton; oilcakes, 7*l.* 5*s.* to 7*l.* 10*s.* per ton; cotton cakes, best makes, 4*l.* 10*s.* to 4*l.* 15*s.* per ton, and seconds, 4*l.* 5*s.* to 4*l.* 10*s.* per ton.

Liverpool Market.

CASTOR OIL.—For good seconds Calcutta 3¾*d.* per lb. is the price in store, but to arrive by steamer shortly due this price might be slightly shaded. The improvement noted in first-pressure French last week has been continued, and sales have been reported at 3⅝*d.* per lb., the price now asked being 3 7/16*d.*, and some parcels have been withdrawn from the market. For forward delivery makers are asking advanced figures, and yet higher prices are looked for. First-pressure English is held at 3⅝*d.* to 3 7/16*d.*

QUILLAIA-BARK.—Further transactions are recorded, and 14*l.* has been paid for parcels of 10 tons. An arrival by steamer just in has been promptly withdrawn from the market.

BEESWAX.—Although business is of limited proportions there is no quotable change in value, Chilian and Peruvian being held for 7*l.* 5*s.* to 7*l.* 17*s.* 6*d.* per cwt., according to quality.

OIL OF TURPENTINE.—Still on the downward grade, and 35*s.* per cwt. would buy to-day.

HONEY maintains a very firm position. Some No. II. pile Peruvian is offered at 21*s.* per cwt. Chilian is worth 22*s.* 6*d.* to 32*s.* 6*d.* per cwt., according to pile.

CALABAR-BEANS.—A parcel of 26 bags old stock is held for 6*d.* per lb.

ALOES.—One hundred boxes Curaçao were offered at auction from the quay. No buyers were forthcoming at owners' idea of value—namely, 22*s.* 6*d.* per cwt.

TURMERIC.—Finger Madras: 75 bags fine finger just arrived, and will be offered at auction.

CARNAUBA WAX.—Steady, and prices range from 72*s.* 6*d.* for grey to 82*s.* 6*d.* per cwt. for fair yellow.

GUM ACACIA.—The market is practically featureless, but the high prices lately ruling are fully maintained. Five serons of Ghezirah are reported sold at 50*s.* per cwt.

GINGER.—One hundred and twenty-two bags Monrovia were offered at auction, and 26*s.* was the price asked; but the lot was withdrawn, as no buyers were forthcoming.

CANARY-SEED.—Flatness characterises the course of the market for this article, and business would be possible at 30*s.* to 31*s.* per quarter for bright Turkish.

SULPHATE OF COPPER is steady at 24*l.* 10*s.* per ton.

IRISH MOSS.—The first arrival of new season, consisting of 124 bales, offered at auction; but buyers were not keen, and the lot was withdrawn.

SCAMMONY-ROOT.—For 2½ tons offered at auction 30*s.* was bid, but the importers refused to consider anything under 32*s.* 6*d.*, and the lot was ultimately stored, the limit being raised to 35*s.* per cwt.

German Drug Market.

Hamburg, July 10

Business on our drug-market is quiet; only a few articles meeting with interest.

AGAR-AGAR shows a very firm market; 390m. per 100 kilos.

ALOES, CAPE, is firm, at 58m. per 100 kilos.

ANTIMONY is firmer, and is quoted 37½m. per 100 kilos. to-day.

BALSAM, PERU, is quiet, at 12½m. per kilo.

CAMPHOR, REFINED.—The manufacturers have reduced their prices for prompt delivery to 470m.; July-September delivery to 480m. per 100 kilos.

CITRIC ACID is quiet, at 287½m. per 100 kilos.

CONDURANGO-BARK is very firm just now. To-day's quotation: 225m. per 100 kilos.

COCA-LEAVES are firm; Bolivian at 325m. per 100 kilos.

ERGOT OF RYE is quiet, and without much demand, although stocks are very small; spot, 450m. per 100 kilos.

LYCOPODIUM is quiet, at 470m. per 100 kilos. The stocks of old crop are getting rather low.

CASSIA LIGNEA is very firm and advancing. New standard, 88m. to 89m.; elect, 92½m. per 100 kilos.

MENTHOL.—Very firm and scarce; 19¾m. per kilo. paid.

QUININE is unchanged, at 45m. per kilo.

SPERMACETI.—Quiet, at 292m. per 100 kilos.

STAR-ANISE is tending firmer; spot, 185m. per 100 kilos.

SPIRIT OF TURPENTINE.—Quiet, and, in consequence of new arrivals, lower. The spot price is 67m. to 66m. per 100 kilos., delivered here.

JAPAN WAX is steady, at 60m. to 59m. per 100 kilos.

CARNAUBA WAX is firm; the great advance in the rates of exchange causes prices to strengthen here. To-day's quotation, 140m. to 190m. per 100 kilos., according to quality.

OILS.—Castor oil is advancing; first pressing, in barrels, 62½m. to 63m. per 100 kilos. Cod-liver oil is unchanged, at 70m. per barrel. Linseed oil is weaker. Cotton oil firmer.

ESSENTIAL OILS.—Cassia oil is firmer. Star-anise oil dearer, at 15m. per kilo. Peppermint oil, HGH, 4.90m. to 5m. per kilo.; Japanese ditto firm, at 7½m. per kilo.

American Drug Market.

New York, July 3.

Business is quiet and wholly of a routine character.

OPIUM is without demand, and single-case lots have sold at $3.05. The general quotation is, however, $3.10.

QUININE continues strong, at 31c. Java is offered at 30c. on the spot, and less to arrive.

ACID, SALICYLIC has declined to 45c. from manufacturers' hands. Second-hands offer at lower figures.

BEESWAX is becoming scarce, and very little is obtainable below 30c. The tendency is upward.

SALOL has declined 50c. per lb.

JALAP is in light supply, and quotations are very firm at 11½c. to 13c. An improvement in demand would send prices up.

COPAIBA is obtainable at 34c. for Central American.

COCA-LEAVES are irregular owing to competition. For Truxillo 19c. to 21c. is asked, and 30c. to 32c. for Huonuco.

CASCARA SAGRADA is easier on account of new-crop offerings. The demand is light, and quotations are 3¾c. to 6c. according to age.

CAMPHOR is offering freely at 59c., and the tone of the market is easy.

SENEGA.—Spot-prices have declined to 36c. nominally, but 34c. will buy. New crop to arrive is offered at 33c. New York.

GOLDEN-SEAL (HYDRASTIS).—Old root is steadily held at 50c., but new crop is offering at 44c.

Sicilian Market.

Messina, July 3.

CONCENTRATED LEMON-JUICE.—During the last few days the market has ruled quiet, but prices have been maintained by holders who are holding for higher figures. Available stock is placed at 1,000 to 1,200 pipes, and is in strong hands. In view of the prospect of the new crop being deficient, holders who are in a position to keep the goods from one season to another are able to control prices. In spite of this the absence of demand will cause prices to rule easier, but even small inquiries will keep prices of concentrated lemon-juice firm. To-day's quotation is 16*l.* f.o.b. Messina.

LEMON OIL.—The price is sustained, and owing to damage to the trees by bad weather it is expected that the short crop will have the effect of hardening prices.

Japanese Market.

Yokohama, June 14

[The Exchange-rates in Yokohama at the date of writing were:—1 yen, London, on demand, 2*s.* 0¼*d.*; Paris, on demand, 2.54½f.; New York, on demand, 49¼c.; and Germany, on demand, 2.06½m. One yen = 100 sen. The weight-equivalents used in this report are:—1 catty = 1⅓ lb.; 1 picul = 133⅓ lbs.]

Both import and export trade is very dull generally, owing to the scarcity of money, which is especially the case so far as drug and chemical trade is concerned.

In export staples I have to report that the market condition of peppermint remains very dull, there being no transactions of importance. Holders generally are anxious to find buyers, even at a loss, and are very weak in anticipation of a big crop next season. Moreover the stock is comparatively large, being estimated at 60,000 catties in Yokohama and Tokyo and 40,000 catties in the producing provinces. At present 4·30 yen per catty for menthol crystals export quality, 3·75 yen per catty for ordinary crystals, and 1·60 yen per catty for oil are quoted nominally. Ginger, dry, has become firmer again, and a few transactions have been done at 11·10 yen per picul for second grade, and 11·25 yen per picul for first quality, at which figures the market closes firm, with no weak sellers. Camphor, refined, 1 oz. tablets are firmly held at 1·05 yen per lb., and for jobbing lots 1·10 yen per lb. is quoted. Iodine new crop is now coming in, with the result that the market has been easy till end of last month, when foreign importers suddenly advanced their potassium iodide by nearly 30 per cent., quoting 5 yen per lb., the intention being to make the price of crude iodine dearer, thus obliging Japanese manufacturers to buy at higher rates. This being the syndicate's usual tactics, Japanese manufacturers tried to make the price of the potassium salt low even at a loss, and as a matter of course they quoted 3·85 yen per lb. for iodide of potassium Japanese make. Consequently the tactics of foreign importers ended without success. The present quotations are 3·90 yen to 3·80 yen per lb. for iodide of potassium, 5·50 yen per lb. for iodoform, and 5·10 yen per lb. for resublimed iodine, all Japanese make and guaranteed Ph. Jap. II. The market has a downward tendency, and for crude iodine 3·60 yen to 3·70 yen per lb., according to quantity, is wanted.

In import articles the general tendency is dull, and price fluctuations are all in favour of buyers, there being some exceptionally cheap sellers irrespective of the market condition in Europe. This is chiefly due to the want of money, and holders are generally hard up. However, a few important articles are firmly held, with a higher tendency in sympathy with the home market.

Carbolic acid: The Government has bought 20,000 kilos. at 1.05 yen per kilo. The consuming season has now set in, and, although the price does not advance, transactions are being made at 48 sen to 49 sen per lb. in drums, and 56 sen to 57 sen per lb. in 1-lb. bottles for snow-white crystals.

Acetanilide is very dull at 46 sen per lb. for ½-ton lots. Acid tartaric and acid citric are both weak, and prices quoted are for former 59 sen per lb. in kegs, and for latter 75 sen per lb. in kegs, which are cheaper than those quoted in prime market. This is due to over-importation. Cocaine muriate has advanced since last report, and holders now quote 9.25 yen to 9.50 yen, but it can

be had at a shade below figures. Quinine sulphate has declined a little, and importers now quote 62½ sen to 65 sen per oz. in tins, and 92½ sen to 95 sen per oz. for muriate. Business is at a standstill. Ipecacuanha is scarce, and a few parcels changed hands at 12 yen per lb. for Rio root, while for powder 10 yen per lb. is wanted in wholesale lots. Santonin is also scarce, and the market is firmly held at 5.80 yen to 6 yen per lb Bismuth subnitrate is still low, and market is lifeless at 2.50 yen per lb. for 10 cases lot, owing to heavy stocks. For morphine muriate importers quote 42 yen to 43 yen per lb., with no buyers at these figures. In heavy-chemicals market general quotations are very low compared with home market, and one of the important features is a heavy fall in the price of caustic soda on account of over-supply. A month ago, when the stock was very light, a brisk demand was filled at 8.30 yen to 8.75 yen per picul in 6-cwt. drums (62 per cent.), but now there are sellers at 6.60 yen to 6.70 yen, with buyers at 6.50 yen per picul. When newly imported it costs 7.30 yen per picul. Holders generally are anxious to sell even at this big loss for financial reasons, and the same applies to chlorate of potassium, which is quoted at 14.50 yen to 14.25 yen per cwt., with probable downward tendency. Potassium bichromate is dull of sale at 17 sen per lb. for ton lot. Soda bicarbonate has declined, owing to American competition, and present quotations are for "Crescent" 3.95 yen per cwt., and for "American" 3.85 yen per cwt.

London Markets.

ACID, SALICYLIC.—The present quotations for contracts are 2*s.* 3*d.* per lb. for crystallised in 14-lb. tins and 4*s.* 1*d.* per lb. for physiologically pure in the same packages. The demand is improving, especially for export.

ACID, TANNIC, is quoted higher owing to the advances in galls. Soluble is 2*s.* 3*d.* to 2*s.* 6*d.* per lb., according to quantity.

ACIDS.—For citric and tartaric there has been more inquiry this week, and if the hot weather continues prices will be better.

AGAR-AGAR.—For spot stuff 1*s.* 11*d.* per lb. has been paid, but one can buy cheaper.

ALOES.—Socotrine in kegs has been sold at 75*s.* per cwt.; 250 packages in gourds of Curaçao have just arrived. There are other arrivals of 40 packages East African aloes.

AMMONIA SULPHATE.—Dearer. Grey 24 per cent. London prompt, 10*l.* 18*s.* 9*d.* to 11*l.* per ton; Hull prompt, 10*l.* 16*s.* 3*d.* to 10*l.* 17*s.* 6*d.*; Leith prompt, 10*l.* 17*s* 6*d.*; Beckton prompt. 11*l.* 2*s.* 6*d.*, forward 11*l.*; Beckton terms prompt, 10*l.* 17*s.* 6*d*,

ARGOL.—In auction 9 bags Cape sold at 47*s.* 6*d.* per cwt. for fair grey, 40*s.* for grey pinky, and 35*s.* for pink.

ARROWROOT.—Quiet. At auction on Wednesday ordinary St. Vincent's was bought in at 2¼*d.*, and fine at 5*d.* per lb. Bermuda sold at 1*s* 6*d.* to 1*s.* 6½*d.* per lb.

ASAFETIDA is practically dead for the moment. Only small stocks of common gum available.

BELLADONNA-ROOT.—German is firm at 40*s.* per cwt.

BENZOIN.—Of Sumatra gum small quantities of the best seconds have changed hands this week at 10*l.* For Siam gum there are several inquiries.

BROMINE.—It is hinted that an early rise is probable owing to demand for mining purposes.

BUCHU.—It was reported yesterday that the market had been cleared, and that an order for 50 bales could not be placed below 5½*d.* per lb., but there is still available stock at 5¾*d.*

CAMPHOR.—The crude market continues firm at 192*s.* 6*d.* per cwt. spot, and 182*s.* 6*d.* to 185*s.*, c.i.f., but business is reported from Japan at 180*s.* In spite of the firmness of this market the Hamburg refiners on Tuesday lowered their prices to 2*s.* 1½*d.* per lb. for bells in ton lots, and 2*s* 2*d.* for three months' contract. The reduction created considerable surprise here yesterday, for the English refiners were contemplating an advance of 1*d.* per lb. upon their present prices—2*s.* 3½*d.* to 2*s.* 4*d.*

CANNABIS INDICA is still quoted 1*s.* 6*d.* per lb.

CINCHONA.—The Vriessevum Cinchona-bark Department in Amsterdam reports the shipments from Java to Europe from June 6 to July 9 to have amounted to 883,000 Amsterdam lbs.; total, January 1 to July 9, 4,132,408 Amsterdam lbs.

CARAWAY-SEED.—An Amsterdam report on the Dutch crop shows that it will be low—viz., 47,727 hectolitres (1 = 99 lbs.), as compared with 76,188 hectolitres last year. The comparison is best shown in the following

Statement.

—	Stock January 1	Crop Bags of 110 lbs.	Prices Fl. p. ½ k.g.
1895	15,000	85,650	13¼–16¾
1896	20,000	127,025	16⅝–10¾
1897	35,000	115,372	11¾– 9¾
1898	25,000	112,284	11 –12½
1899	45 000	68,481	11 –14¾
1900	25,000	(Est.) 42,954	14¾–17½

The consumption in the five years 1895–1899 was 498,812 bags, or an average of 99,762 bags a year. The district authorities state that most of the farmers have already sold their production. The German crop is expected to be half an average one.

COLOCYNTH.—Practically no business has been done, and the price is 1*s.* 6*d.*

CUBEBS.—No fresh business has been done, and 40*s.* per cwt. is the highest paid.

CYANIDES.—Manufacturers are very busy with mining orders, and the price for 98 per cent. KCN has advanced to 1*s.* 1½*d.* per lb. in 10-ton lots. Druggists' remains at 1*s.* 6*d.* to 1*s.* 8*d.*, according to quantity.

DAMIANA-LEAVES are dearer at 6*d.* per lb.

ERGOT.—Firmer. Sound Russian has been sold this week at 2*s.* 2*d.* per lb., c.i.f., London, and spot at 2*s.* 3*d.* Some holders ask 2*s.* 6*d.*

A Hamburg firm advises us that the position of this article is unchanged but firm. There has been no important business during the past eight days, but no supplies have arrived, as there is absolutely nothing more to be found. Stocks cannot increase in consequence, but a single order of 1 ton would stiffen the market considerably, and higher quotations would follow. Reports about the new crop speak of a small one, and there is every prospect that values will be very high. (See to-day's cablegram.)

GALLS.—Sales of blue Bussorah sort have been made at 105*s.* and the remainder of the stock is now held for 110*s.* per cwt.

GENTIAN-ROOT is firmly held, the price being 17*s.* per cwt., c.i.f.

GOLDEN SEAL.—The autumn-dug root is extremely scarce, and for good genuine root 2*s.* 4½*d.* per lb. is the price; spring and summer-dug root can be obtained at 2*s.* 3*d.* to 2*s.* 4*d.*, c.i.f.

GUM ARABIC.—For Persian gum the market is quiet and there is very little demand; prices range from 18*s.* to 22*s.* per cwt., according to quality. Turkey sorts quiet also, with small retail sales; 70*s.* to 75*s.* are the prices.

HENBANE-LEAVES.—New German leaves have been sold at 56*s.* to 65*s.* per cwt. for good qualities, c.i.f. terms.

INSECT-FLOWERS.—Our Trieste correspondent reports that the new crop is turning out quite favourably. Fine qualities of flowers are steady, and open flowers can be got at considerably reduced values. The prices are: wild, 105*s.* to 109*s.* per cwt.; closed, 83*s.* to 92*s.*; half-open, 49*s.* to 73*s.* 6*d.*; open, 40*s.* to 42*s.* 6*d.* The receipts during June amounted to 114,100 kilos., and the deliveries 75,500, so that the stock now stands at 184,400 kilos.

IPECACUANHA.—A good volume of business has been done since the auctions in Rio at 12*s.*, 12*s.* 3*d.*, and 12*s.* 6*d.* per lb. A few bales of Cartagena have changed hands at 8*s.*

JALAP.—Thirty packages of medium quality from Vera Cruz have arrived.

LEMON-PEEL.—The demand for lemons has sent up the price of fresh peel to 1*s.* 3*d.* per lb.

LIME-JUICE is now selling at 1*s.* 4*d.* to 1*s.* 6*d.* per gallon.

MENTHOL.—Still firmer. Business has been done in Kobayashi at 9*s.* 3*d.* per lb. net, August-September delivery,

and at 9*s.* 6*d.* spot. Little more is available on this market. For Fusi Yama brand 9*s.* 3*d.* is now asked.

MUSK.—For first-pile blue skin Tonkin pod 75*s.* per oz. is reported to have been paid this week.

OIL, BERGAMOT is somewhat dearer, and the price for best qualities is 8*s.* 7*d.* per lb.

OIL, CASSIA.—The market has eased off a bit during the past fortnight, the China trouble having failed to boom it.

OIL, CASTOR.—Very firm, and the price for Italian medicinal oil is about 40*s.* per cwt. Belgian first-pressing is also firmer at 31*l.* per ton, f.o.b., and 32*s.* 6*d.* per cwt., spot. Hull-drawn oils are also higher this week, pharmaceutical being 34*l.* 10*s.* per ton in barrels, or 4⅛*d.* per lb. in cases; and firsts 3¾*d.* per lb. in cases.

From Calcutta we learn, under date June 21, that a quiet tone still prevails there, and crushers have not reduced their rates materially, as production has been much interfered with by the rains. There are no stocks of Madras Coast seed in the market, nor have any supplies come in. Imports, however, from Bengal and up-country districts are arriving on a somewhat increased scale. Sales of spot parcels are being made, but crushers are not inclined to operate at the rates for forward delivery.

OIL, LEMON is firmer again this week, 3*s.* 5*d.* per lb. being the price.

OIL, OLIVE.—Stocks are becoming much reduced, owing to an increased demand, and prices are firm. For Lucca oil of good quality 5*s.* 6*d.* to 6*s.* per gal. is wanted.

OIL, ORANGE.—Oil of sweet orange is cheaper at 6*s.* to 6*s.* 3*d.* per lb.

OIL, PEPPERMINT.—For H.G.H. brand 5*s.* 2*d.* to 5*s.* 3*d.* per lb. is the spot price, and there are c.i.f. offers at 4*s.* 10½*d.*

OIL, STAR-ANISE.—Early in the week 7*s.* per lb., spot, was paid, but yesterday business was done at 6*s.* 10½*d.*

OILS, ESSENTIAL.—An Amsterdam report states that Russian aniseed oil continues in strong demand, and may go higher in connection with the rise of star aniseed oil. Clove oil is dull, and quotations have been reduced. Ginger oil is a little lower. Cubeb oil is higher owing to the sudden rise of cubebs Cajuput oil is in strong demand; the stock in Holland is small. Of kananga oil there are frequent arrivals and a strong demand. Juniper oil is reduced in price.

OPIUM.—A strong market. On Friday last business was completed for China in druggists at 9*s.* 4½*d.* per lb. to the extent of 100 cases, and yesterday 40 more were sold at 9*s.* 6*d.* As Smyrna advices show sales of 240 cases since our last report, this fact has also hardened matters, and higher rates are expected. For selected Tokat 12*s.* is wanted. To-day orders have gone a-begging, and 10*s.* is the price for druggists'.

CONSTANTINOPLE, July 6.—The opium-market is very quiet, with a slight downward tendency. New crop is coming in freely, and holders seem disposed to sell current at present rates. The reason for this is that, owing to decline in mohair and wool, the whole clip remains on holders' hands, and they are short of money for grain-purchases. Grain crop being excellent this year, money is much wanted inland; and opium is at present the only realisable article. Sales this week were as follow:—13 cases new druggists', at 7*s.* 10*d.*; 2 cases old druggists', at 8*s.* 2*d.*

SMYRNA, June 29.—The past week has been very active, and sales are as follows:—Of old Karahissar tale quale, 11 cases, at 8*s.* 9*d.* per lb.; 33 cases of Yerli opium and 16 cases current tale quale, all new crop, at 8*s.* 1*d.* For exportation, c.i.f. European ports, 11 cases new-crop tale quale, 8*s.* 1*d.*; 14 cases current tale quale, 7*s.* 10*d.* The market closes firm with buyers. Arrivals: old crop, 2,836, against 1,797; new crop, 231, against 270 at the same date last year.

ORANGE-PEEL.—Fresh peel is reported by one cutter to be out of supply.

ORRIS-ROOT.—The market is quiet but very firm, and prices are unchanged.

OTTO OF ROSE. Mr. Ch. Christoff, of Kezanlik, has issued through his agents here a report of the present crop, which he estimates as follows:—

Kezanlik, 1,310 kilos.; Nova Zagora, 151 kilos.; Stara Zagora, 142 kilos.; Tchirpan, 110 kilos.; Karlovo, 1,278 kilos.; Konari, 223 kilos.; Brézovo, 453 kilos.; Philippopolis, 10 kilos.; Pechtèra, 112 kilos. Total, 3,789 kilos.

QUICKSILVER.—The market is firm both in first and second hands at 9*l.* 10*s.* per bottle. We learn that Messrs. Rothschilds have at last entered into a fresh agreement with the Spanish Government to sell the produce of the Almaden mines. The agreement is for a term of ten years, and the delay in arriving at it, as well as delay in sending forward metal, has been due to the Spanish Government having held out for better terms. Since an agreement has been arrived at better supplies are hoped for. The imports this year are unprecedented in smallness, the total to the end of June being only 315,614 lbs. as compared with 3,295,629 lbs. in the same period of 1899. The imports this year practically represent the balances under the old contract, and with the settlement it is to be expected that the shipments will now be better.

QUININE.—Second-hand business has been done since our last at higher rates—viz., up to 1*s.* 4½*d.* for both spot and October, the amount done being between 10,000 and 25,000 ozs. per day. The makers' prices are unchanged. Yesterday sales of about 70,000 oz. were reported. To-day there has been quite a boom in the market, and 1*s.* 4¾*d.* has been paid on the spot, and 1*s.* 5½*d.* for October delivery. The market closes decidedly firm, and the advance in bark at the Amsterdam sales gives strength to the view that the makers will advance their prices. The Amsterdam Fabrik have actually done so, 1*s.* 5*d.* being their price to-day, and B. & S. have withdrawn all offers.

RHUBARB.—The arrivals this week are 34 cases fine common rough high-dried new crop, 80 cases ditto of the old crop, and 10 cases fine Shensi new crop.

SANTONIN.—Quiet. There is no second-hand stock, and the makers' price (11*s.* 3*d.* to 11*s.* 9*d.*) has to be paid.

SARSAPARILLA.—Three bales of Lima-Jamaica, 15 packages of native Jamaica, and 24 packages of genuine grey Jamaica have arrived this week.

SENEGA-ROOT.—The quotation from New York is 1*s.* 4½*d.*, c.i.f. Here a considerable business was done at the end of last week at 1*s.* 5*d.*, c.i.f., the spot price being 1*s.* 9*d.*

SENNA.—There has been some inquiry this week for both the better and the cheaper sorts of Tinnevelly, but stocks are very low, and there is a tendency to hold off for the new crop, of which, however, there is no news yet. In Alexandrian senna very little is doing, but sales have been made at 6½*d*

SERPENTARY-ROOT.—The price asked is 1*s.* 4*d.* to 1*s.* 4½*d.* per lb.

SHELLAC.—Quiet. Tuesday's auctions consisted chiefly of odd lots offered without reserve, and they sold at easy rates. Weak livery reddish blocky second Orange sold at 57*s.*; of Button, 65 sold, in small lots, without reserve, fair firsts, part cakey, at 61*s.* to 62*s.*, weak seconds at 54*s.* to 55*s.*, ordinary circle 2's at 47*s.* to 50*s.*, low to fair thirds at 42*s.* to 47*s.* Of seedlac, fine pale Kurrachee sold at 61*s.*, and Madras dark Buttons at 40*s.*, subject. Small dusty Siam sticklac sold at 39*s.*

SPERMACETI.—American dearer at 1*s.* 4*d.* per lb.

SPICES have been dull this week; cloves have fluctuated and cassia lignea is dearer, but other articles are unchanged. At auction on Wednesday Cochin *Ginger*, was bought in at 32*s.* to 33*s.* per cwt. for washed rough; the cut qualities also being withdrawn. Zanzibar *Cloves* after being down to 3 5/16*d.* per lb. for future delivery, are firmer at 3½*d.* for August-October and January-March Penang were bought in at 7*d.* for fair picked. Zanzibar *Chillies* were taken out at 47*s.* per cwt. for fair red. East India *Capsicums* were bought in at 27*s.* 6*d.* to 30*s.* per cwt. *Cassia lignea* sold at 40*s.* per cwt. for false packed, and at 49*s.* 6*d.* to 50*s.* for 1891 import. *Cassia-vera* was bought in at 26*s.* per cwt. *Mace* quiet, small to middling red Penang was bought in at 1*s.* 6*d.* to 1*s.* 11*d.* per lb. *Pepper* steady, fine Malabar sold at 6⅜*d.* per lb.; Alleppey and Tellicherry were held for 6 5/16*d.* per lb. Shells were bought in at 3*d.* per lb. Singapore is quoted 6 5/16*d.* on the spot, and 6 15/32*d* for August-October steamer. Penang white was bought in at 8¾*d.* per lb.

WAX, BEES'.—For Italian wax the market is firm, stocks being much reduced. There is a good demand from the United States; 6*l.* 15*s.*, c.i.f., would buy.

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Bicarbonate of Soda. A pure, refined, and recrystallised salt is particularly notable by its freedom from metals, or any base other than soda. Gives no appreciable reaction for sulphates, and contains not more than 0·035 per cent. of sodium chloride, a trace which scarcely gives "the slightest characteristic reaction" of the B.P.

This sodium bicarbonate is well adapted for the preparation of granular effervescent preparations and salines, seidlitz powders, baking powders, and for other medicinal and domestic purposes. It is the purest and cheapest sodium bicarbonate made.

Concentrated Crystal Soda. This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

Pure Alkali, 58 degrees. A dry white powder; dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent. carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

ALSO

Soda Crystals. **Caustic Soda.** **Bleaching Powder.**

Manufactured from pure Carbonate, and supplied of all degrees of strength.

Retailers can obtain these products through any Wholesale house by specifying Brunner, Mond & Co.'s "Crescent" Brand. The manufacturers supply wholesale quantities only, and will quote on application to

BRUNNER, MOND & CO., LIMITED, NORTHWICH, CHESHIRE.

MRS. WINSLOW'S
SOOTHING SYRUP
FOR CHILDREN TEETHING.

Greatly facilitates the process of Teething, by softening the Gums, reducing all Inflammation; will allay ALL PAIN and spasmodic action, and is

SURE TO REGULATE THE BOWELS.

Depend upon it, Mothers, it will give rest to yourselves and

RELIEF & HEALTH TO YOUR INFANTS.

Mrs. WINSLOW'S SOOTHING SYRUP

Has been used for over Fifty Years by millions of Mothers for their children while Teething with perfect success. It soothes the child, softens the gums, allays all pain, cures wind colic, and is the best remedy for diarrhœa.

RETAILED BY CHEMISTS ONLY.

Wholesale from THE ANGLO-AMERICAN DRUG COMPANY (Limited),
33 Farringdon Road, London.

DUNCAN, FLOCKHART & CO.
EDINBURGH and LONDON.

GELATINE CAPSULES (*1,500* Varieties).

CASCARA CAPSULES. EASTON SYRUP CAPSULES.
GREGORY POWDER CAPSULES.

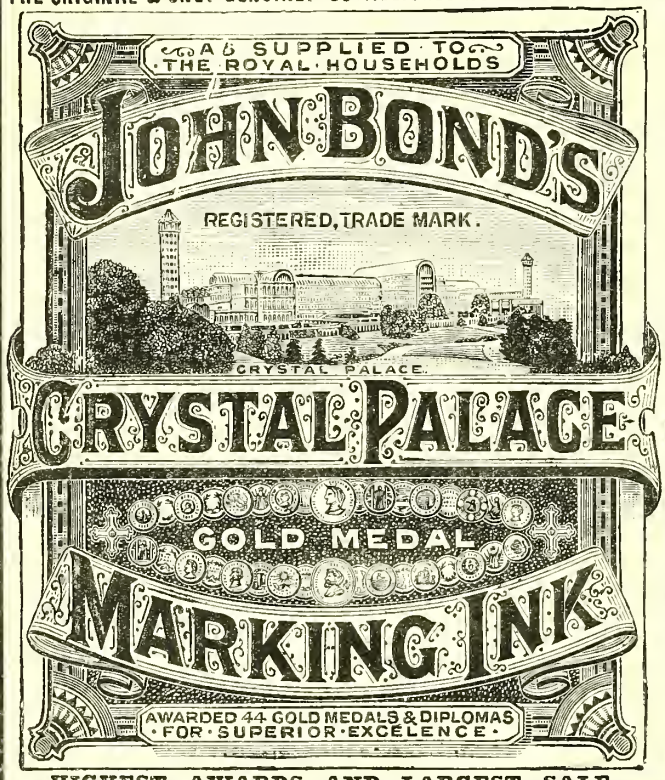
BLAUD PILL CAPSULES.

We guarantee our One, Two, and Three Pill Capsules to be equal respectively in Ferrous Carbonate to one, two, and three freshly-prepared Blaud Pills. They have also this distinct advantage over Pills, that they neither oxidise nor harden.

DUNCAN, FLOCKHART & CO., MANUFACTURING CHEMISTS, EDINBURGH

Telegrams— "Danhart Edinburgh," "Danhart London."] London Address—143 FARRINGDON RD., E.C. [Telephone— 874 Edinburgh. 382 Holborn, London.

THE ORIGINAL & ONLY GENUINE. ESTABLISHED NEARLY A CENTURY



HIGHEST AWARDS AND LARGEST SALE.

John Bond's 'CRYSTAL PALACE' Marking Ink.

Wholesale Prices, Net. Per gross

6d.	John Bond's "Crystal Palace" Marking Ink, with Vouchers enclosed, entitling the purchasers to their Rubber Stamp..	30/-
1/-	" " " also with Free Linen Stretchers	60/-
6d.	John Bond's "Crystal Palace" Marking Ink Pedestal, with Ink and Linen Stretcher, with Voucher as above	36/-
1/-	" " " with Pen and Linen Stretcher	72/-
1/-	Bijou Cabinet, 1/- Bottle of Ink, Improved Linen Holder and Pen, in Handsome Box	72/-
1/6	John Bond's "Crystal Palace" Marking Ink Cabinet, with Linen Stretcher and Pen, in Handsome Box, Voucher enclosed..	90/-
1/-	John Bond & Co.'s Nota Bene Marking Ink (requires no heating)	50/-
6d.	" " " " "	25/-
6d.	John Bond & Co.'s Marking Ink	24/-
1/-	" " "	48/-

In Stoppered Bottles, 10/- per gross extra.
Minimum order at Wholesale Prices, ½ gross 6d.; or assorted order to the value of £1.

Terms: Net Cash Monthly Account.

GIVEN AWAY, and enclosed with every 6d. and 1/- bottle, a voucher entitling purchasers to their name or monogram Rubber Stamp. Also free with enlarged 1/- size, an improved Linen Stretcher.

Cheapest, Best, & Most Saleable Article in the World.

Established nearly a century, and its ever-increasing sale shows the appreciation of the Trade and Public for the Original and Only Genuine preparation, which is more to the front than ever

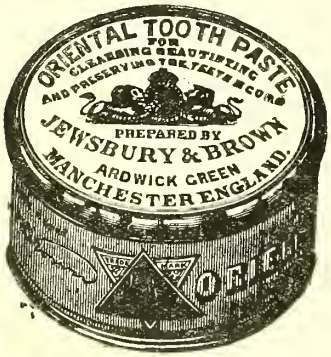
IMPORTANT NOTICE TO THE TRADE.

I take the opportunity of thanking the Trade for their increased support, and thank them for returning to the Wholesale Houses imitations of my world-renowned preparation, often substituted for extra profit. When ordering please state clearly, "John Bond's 'CRYSTAL PALACE' Ink" required.

Wholesale Export Depot and Manufactory—

75 SOUTHGATE ROAD, LONDON, N.

Telephone—142, Dalston. Telegrams—"ACTINIC LONDON."



JEWSBURY & BROWN'S
Oriental Tooth Paste.

Established over 70 years. Warranted to retain its properties and keep good in any climate. The original and only genuine is manufactured solely by

JEWSBURY & BROWN,
ARDWICK GREEN, MANCHESTER.

Particular attention should be paid to the Trade Mark, printed in red and green, facsimile of which is annexed, as numerous imitations are offered.

MAY BE OBTAINED FROM THE WHOLESALE HOUSES.

Bills and Showcards forwarded on receipt of Address Cards and directions for enclosure.

"No. 54 ALTERMARKT"
(ORIGINAL HAUS)

EAU DE COLOGNE

SUPERIOR TO ANY OTHER BRAND.

Of all Wholesale Houses, and the Sole Agents for United Kingdom and the Colonies—

VAN OPPEN & CO.
HACKNEY, LONDON, N.E.

IMMENSE AND INCREASING SALE.

WOODS'
ARECA NUT TOOTH PASTE

In Pots and Collapsible Tubes, 6d. and 1s. each.

SOLD BY ALL WHOLESALE HOUSES.

Special Terms for £5 from the Proprietors—

W. WOODS & SON, Chemists, **PLYMOUTH.**

Woods' Areca Nut Tooth Powder, containing all the properties of the Paste, in 6d. and 1s. Tins.

RESINOL

An Ideal Ointment.
A Perfect Dressing.

Put up in two sizes, 2/6 and 4/6.

UNRIVALLED as an Antipruritic, Antiseptic, Antiphlogistic, Nutrient, &c.

A Specific for Pruritus Ani, Pruritus Vulvae, Eczema, and all Itching or Inflamed Skin Affections.

ENDORSED BY THE MEDICAL PROFESSION, AND SOLD BY ALL CHEMISTS.

RESINOL SOAP

Price 1/3.

An ABSOLUTELY PURE, Non-irritating, Emollient, and Preservative Detergent.

The Best Soap for the Skin, the Hair, Scalp, &c. Promptly removes odours from handling Chemicals, Wounds, &c.; also a superior Shaving Soap.

RESINOL CHEMICAL COMPANY.

Sole Manufacturers,

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BALTIMORE,
MARYLAND, U.S.A.

Great Britain Branch:
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LONDON, N.W.

"LIQ. SANTAL FLAV. c̄ BUCHU ET CUBEBÂ"

(HEWLETT'S).

THE ORIGINAL PREPARATION.

Report of "THE PRACTITIONER":—

"Experience has shown this preparation to possess *the same efficacy as Santal Oil itself.* It mixes perfectly with water, and has a taste by no means disagreeable, in which particular it contrasts very favourably with the ordinary mixture it is intended to replace."

To ensure obtaining this preparation, please write: "Liq. Santal Flav. c. Buchu et Cubebâ (Hewlett's)."

Price 10s. 6d. per lb. packed, for dispensing only, in 10, 22, 40, and 90-oz. Bottles.

INTRODUCED AND PREPARED ONLY BY

C. J. HEWLETT & SON, Wholesale and Export Druggists,
40, 41, & 42 CHARLOTTE STREET, LONDON, E.C.

THOMAS TYRER & CO., LIMITED,

Chemical Works, Stratford, London, E. Established 1844.

"STERLING BRAND"

TEREBENE, P.B. and Optically Inactive,

BISMUTH AND MERCURIAL PREPARATIONS,

ETHERS, PYROXYLINS, COLLODIONS,

And Chemicals for Scientific and Technical Purposes.

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TASTELESS QUININE
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EUQUININE (the Ethyl-carbonate of QUININE).

EUNATROL PILLS (chem. pure Oleate of Sodium). Bile stimulant, Excretor of Gallstone.

VALIDOL (Valerianic Acid and Menthol). Antiasthmatic, Antihysteric. Reliable preventive against Seasickness, as proved in numerous cases.

UROSINE (Quinic Acid and Lithia). Prevents formation of uric acid. For Gout, and Uric Acid Diathesis in general.

For Free Samples of above Preparations and Literature apply to

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33 Lime Street, LONDON, E.C.

The Hon. Surgeon to his Excellency the Viceroy of India prescribes "CLARKE'S BLOOD MIXTURE" largely, and speaks highly of its efficacy in skin affections, &c.—A. JOHN & CO., Chemists, &c., Agra, India.

Counter Bills and Posters, wi h Name and Address, also Show Cards, on application. Printed matter supplied in any language for Foreign Agents.

CAUTION.—Immediate proceedings will be taken against all persons pirating the Trade Mark, "Blood Mixture" (Registered No. 3,275), Labels Wrappers, Bills, or Advertisements, or in any way infringing the rights of the Sole Proprietors,

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ROBARE'S AUREOLINE

Or GOLDEN HAIR WASH.

4-oz. Bottles, 33/-; 10-oz. Bottles, 66/- per doz.

Wholesale from R. HOVENDEN & SONS, LTD., and from all the principal Patent Medicine Warehouses in London.

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Beg to inform their friends and the Trade generally that, being Sole Proprietors of the Business of

BARRON SQUIRE & CO., BUSH LANE,

and also the various Formulæ of the Special Preparations of

JAMES BASS & SONS, HATTON GARDEN

they are prepared to execute orders for the same, and pledge themselves to supply them in all their integrity.

SPECIMENS OF THESE PREPARATIONS have REMAINED in the MUSEUM of KEW GARDENS during 28 YEARS WITHOUT DETERIORATION.

"SWEET" PEARL COATED PILLS.

TINCTURES, ETC., IN BOND.

PIERLOT'S VALERIANATE of AMMONIA.

A powerful Antispasmodic and Sedative for *mental and physical nervous diseases*, hysteria, neurasthenia, neuralgia, &c.

Retail 4/6; Wholesale 48/- per doz.
u/s for dispensing, 42/- per doz.

KOLA-ASTIER

(Granulated).

Contains all the active principles of the Kola Nut, Caffeine, Theobromine, Kola Red and Tannin in a soluble, agreeable, and portable form. Recommended as a reconstituant and *stimulant of the physical and mental forces.*

Retail 3/6 per bottle; Wholesale 34/- per dozen.

FOREIGN CHEMISTS, Ld.

WILCOX, JOZEAU & CO.

49 HAYMARKET, LONDON, S.W.

PRICE LIST FREE on APPLICATION.

WHOLESALE IMPORTERS & EXPORTERS OF ALL
FRENCH and GERMAN
SPECIALITIES AND
PROPRIETARY MEDICINES.

GOODS NOT in STOCK obtained to order.

Wholesale Depot for

ABYSSINIAN REMEDY.
APIOL CAPSULES.
APIOLINE CAPSULES.
AUBERGIER'S SYRUP & PATE
BELLOC'S CHARCOAL.
BENEDICTINE DENTIFRICES.
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CARBOLIC SMOKE BALL.
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COGNET'S CAPSULES & DRAGEES.
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CAPSULES.—Santal Wood Oil, Creasote, Copaiba, Phosphorus, Guaiacol, Ether, &c., in bulk or in tin boxes, for retail sale.
DECLAT'S SYRUPS.
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EAU DE LUBIN.
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RAMIS SYRUP & PATE.
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Compare the Prices of

these high-class flexible

CAPSULES

with those which you now pay,

and write for complete list.

	Per 1,000	Boxes of 36 per doz.	Boxes of 24 per doz.
Cascara Sagrada = 30 ♏ fl. Ext.	10/-	6/6	4/7
Copaiba, ♏v	5/-	3/9	2/6
,, ♏x	7/3	5/-	3/9
Creasote (Beechwood in almond oil) ♏i ...	7/6	5/-	3/9
,, ,, ,, ,, ♏iii	8/6	5/11	4/1
Ammoniated Quinine = 30♏ Tinct. ...	12/6	8/-	5/7
Santalwood Oil, ♏v	18/-	11/-	7/7
,, ,, ♏x	24/-	14/-	10/-
Syr. Eastonii = 30 ♏	16/-	10/-	7/-

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LEMONADE CRYSTALS.

LIME JUICE CORDIAL.

IN BOTTLES 6 TO THE GALLON.

CITRATE OF MAGNESIA

(FOUR QUALITIES)

In Bulk, 1-lb. Decorated Tins, or Cheltenhams.

HEALTH SALT.

In Decorated Tins.

Samples and Prices await your application.

DAVIES, GIBBINS & CO.

Wholesale Manufacturing Chemists,

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For "Private Brands" of milled and superfatted Soaps, toilet as well as medicinal.

TOILET SPECIALITIES MADE FOR THE TRADE.

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H. BRONNLEY & CO., LTD. LARGEST TOOTH SOAP COMPRESSERS IN THE WORLD.

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MANUFACTURING CHEMISTS, WHOLESALE & EXPORT DRUG MERCHANTS, HULL.

We invite the Trade to apply for the Agency for

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CHALYBEATE SULPHUR

(Registered) **SALT.**

Put up in enamelled Tins, yellow ground and black lettering.

An Unique and Capital Selling Line.

A sure preventive of BILIOUSNESS, RHEUMATISM, ECZEMA, and all Blood and Skin Diseases.

Retailed at face value, 6d. and 1/- Tins. On the P.A.T.A. List, each Agent also personally undertaking not to retail below face value.

SELLS READILY.

Neat Enamelled Metal Show Cards and also Large Posters supplied gratis.

Leaves a clear Net Profit of over 70% on Lowest Net Trade Prices, 3/6 and 7/- dozen, and is easier to sell and more satisfactory to push than ordinary Health Salts, because of its superior Medicinal Properties.

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THE LEADING LINE IN PATENTS.

QUICKEST SALES.

BEECHAM'S PILLS

May now be had in **£5** Lots, at Lowest Prices, Carriage Paid. Packages Free.

ORDERS must be accompanied by Cash. Cheques to be made payable to Thomas Beecham, and crossed "Parr's Bank, Limited, St. Helens."

	PER DOZ. NET.
PRICES.—Beecham's Pills, 9½d. size (36 pills)	7/-
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2s. 9d. „ (168 „)	25/-
Beecham's Tooth Paste, 1s. size	7/6

ADVERTISING MATTER to suit Retailers' requirements will be sent on application.

ADDRESS—THOMAS BEECHAM, ST. HELENS, LANCASHIRE.

P. BEIERSDORF & CO.

Hamburg-Eimsbüttel, manufacturing chemists of:

BEIERSDORF's **Guttapercha-Plastermulls** according to Dr. Unna.
BEIERSDORF's **Paraplasts,** according to Dr. Unna.
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BEIERSDORF's **Rubber Adhesive Plaster in pieces and on Spools.**
BEIERSDORF's **Medicated and Porous Rubber Plaster.**
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ABSORBENT COTTON LINTS, FLAX LINTS, ROLL BANDAGES, COTTON WOOLS.

"GAMGEE TISSUE"
(Patent Absorbent Gauze and Cotton Wool)
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All kinds of ANTISEPTIC DRESSINGS.

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POCKET SPITOON

Registered No. 349532.

To Prevent the Spread of Tuberculosis, &c.

This Pocket Spitoon has been brought out on the lines suggested by the Medical Officer of Health for the City of Sheffield.

Made of dark blue glass, having closely-fitting nickel-plated lid.- Just fits the handkerchief pocket, and may be readily emptied and sterilised.

Price 1/6 each. 16/- per dozen.
In gross lots, 15/- per dozen.
Carriage paid on 1 dozen and upwards.

Sole Maker: **G. T. W. NEWSHOLME,**
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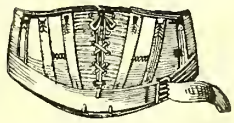
DENTON'S CLINICAL THERMOMETERS have had a constantly-increasing sale for upwards of a quarter of a century. They are guaranteed the best English make. There are various patterns to choose from. They are reliable, accurate, and neat. One trial is sufficient to recommend them. They are in use all over the world. All standard patterns kept in stock (special kinds and scales made to order). Our latest pattern, the "Quickset," can be "set" with only one or two shakes, thus avoiding the trouble of swinging the arm for five minutes. They are the greatest boon on the market for Nurses, as they save fatigue. Wholesale of

S. G. DENTON (Maker to the Government).
Correspondence Invited. 25a Hatton Garden, LONDON.



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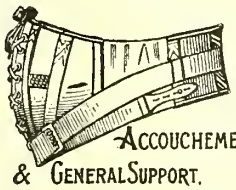

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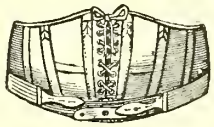

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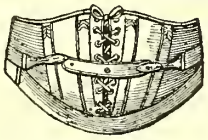

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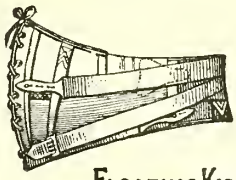

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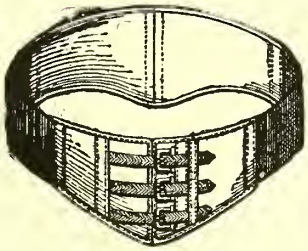
Our New Illustrated Shipping List Now Ready.



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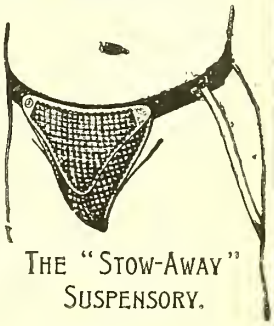
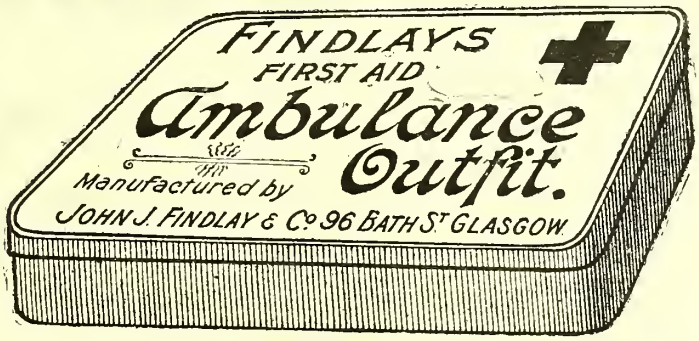
DOMEN BELTS CO.,

456 STRAND, CHARING CROSS, W.C.



THE "STOW-AWAY" SUSPENSORY.

The Pocket Ambulance Outfit.



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CRÊPE RUBBERLESS ELASTIC BANDAGE.

2 inches, ***10/-*** ... $2\frac{1}{2}$ inches, ***12/-*** ... 3 inches, ***15/-*** ... $3\frac{1}{2}$ inches, ***18/-*** per Doz.

EACH BANDAGE IN A BOX. DISCOUNT FOR QUANTITIES.

THE "ST. MUNGO" RUBBERLESS ELASTIC BANDAGE.

This is **not** a Crêpe Bandage, but has much more body, and is at the same time remarkably light and comfortable to wear.

2 inches, ***7/-*** ... $2\frac{1}{2}$ inches, ***8/-*** ... 3 inches, ***9/-*** ... 4 inches, ***12/-*** per Doz.

EACH BANDAGE IN A BOX. DISCOUNT FOR QUANTITIES.

PRICE LIST OF SURGICAL DRESSINGS & APPLIANCES ON APPLICATION.

JOHN J. FINDLAY & CO. Surgical Bandage & Dressing Manufacturers, **96 BATH ST., GLASGOW**

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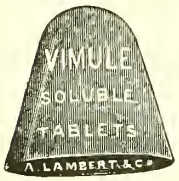
SOLUBLE TABLETS

PREVIOUSLY ADVERTISED AS

LAMBERT'S SOLUBLE QUININE TABLETS.

PERFECTLY PREPARED.



ABSOLUTELY RELIABLE.

SALE UPWARDS OF 8,000,000.

These Tablets are manufactured by us of the best materials procurable. We guarantee every one to be of accurate proportions, and can with confidence recommend them to the trade as one of the best ever introduced.

They are packed in specially neat metal boxes of 1 doz., and sealed with our Registered Label, without which they are not genuine.

Our method of packing particularly adapts them for exportation. Being practically air-tight they will keep in perfect condition for a long period, and liability to injury by variation of climate is reduced to a minimum.

Advertised to retail at 2/- per box of 1 dozen. 5/- for three boxes. 9/6 for six boxes. 17/- for 12 boxes.

Trade Price.

12/6 net per dozen boxes of 1 dozen each.
Single boxes 1/3, including postage.
Orders of ½ doz. boxes and upwards sent post free.
Can be obtained through any wholesale house.

PERFECTLY PREPARED.

TRADE PRICES MODERATE.

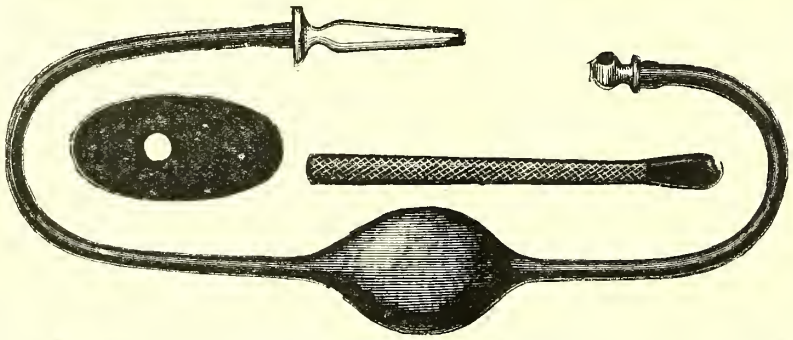
SALE UPWARDS OF 8,000,000.

A. LAMBERT & CO., 16 DALSTON LANE, LONDON, N.E.

THE 'EMPIRE' ENEMA.

17/- NET.

PER DOZ.
UNPOLISHED.



18/- NET.

PER DOZ.
POLISHED.

This is a FULL-SIZED Enema, made of Vulcanized Rubber, and has two important qualities never before combined, except in high-priced Enemas, viz.:

IT WILL NOT GET STICKY in hot weather, and

IT WILL NOT GET HARD in cold weather.

WE GUARANTEE THEM FOR TWO YEARS.

We also supply Druggists' Sundries in great variety, Stockings, Hot-water Bottles, Combs, Sponge Bags, Syringes, Catheters, Trusses, Elastic and Waterproof Goods of all kinds.

Owing to the continued rise in raw material we are obliged to notify a small advance in prices of a good many of our articles. Particulars of this advance have been posted to all Chemists on our books, and will be sent to others on application.

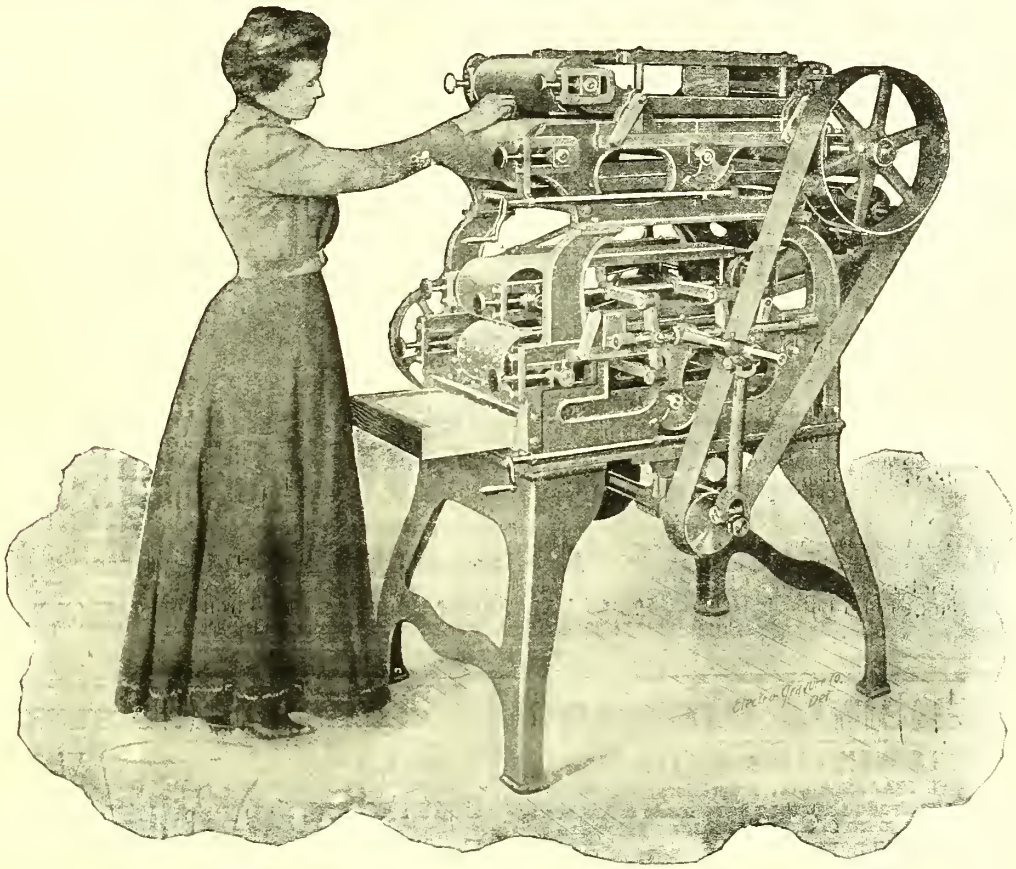
OUR GOODS ARE RIGHT AND PRICES LOW.

WRITE FOR ILLUSTRATED CATALOGUE—POST FREE.

BURGE, WARREN & RIDGLEY, 91 & 92 Great Saffron Hill, LONDON, E.C.

COLTON'S

AUTOMATIC PILL MAKING MACHINE COMPLETE



It only requires an attendant to feed in the mass, and the Machine will turn out Round or Oval Pills accurately, any size or weight required.

A COMPLETE PILL PLANT IN ITSELF.

WE once were of the opinion that all things were not possible, but as the years go by we are forced to change our previous erroneous conclusions, and will frankly admit that in these modern days of invention all things that are necessary to the welfare of mankind may be sought out through mechanical movements, and when one understands there are but two movements, a straight or curved action, the above statement becomes more difficult to comprehend, yet throughout all the diversified variations in mechanical research, we have but these two movements, through which it is possible to arrive at a desired resultant.

I call the reader's attention to these two basic principles in order to fully prepare the mind to grasp the utter simplicity involved in rounding pill mass, by and through the action of rubber belts which have previously been prepared to a perfect surface, and adjusted by long experimentation. It cost many hundred dollars to find the exact divisions proportionate to each other, and bring forth in the end perfect round or oval pills with rapidity, exactness, and perfection. The machine only requires the attention of any attendant familiar with pharmaceutical machinery, and I feel absolutely confident in introducing this latest marvel in pill production, that it will not only fill every requirement for which it is adapted, but will engage the attention and pleasure of my old customers as soon as it can be introduced to their scrutiny. Correspondence solicited.

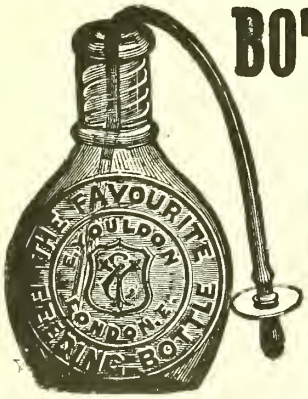
Address—**ARTHUR COLTON, DETROIT, MICHIGAN, U.S.A.**

H. POTHS & CO.

Bury Court, St. Mary Axe, LONDON, E.C.

SHOP BOTTLES & JARS with vitrified labels
PERFUME BOTTLES, SCREW-CAPPED BOTTLES,
Graduated Measures and
Druggists' Sundries.

BOTTLES FOR ALL REQUIREMENTS



Trial Orders and enquiries solicited by

E. YOULDON,

ESTABLISHED 1840.

East London Glass Bottle Warehouse,

36, 38 & 40 GREAT GARDEN ST., WHITECHAPEL, LONDON, E.

Telegraphic Address—"YOULDON LONDON."

DISPENSING BOTTLES.

THE NORTH LONDON GLASS BOTTLE COMPANY
(I. ISAACS & CO., Proprietors)

Beg to inform the Trade that they have made a further reduction in the price of their Bottles, as follows:—

The NEW SHAPE FLAT BOTTLES, with rounded edges, plain or graduated—

3 & 4 oz. ..	9/- per gross.	10 & 12 oz. ..	15/- per gross.
6 ,, 8 ,, ..	10/- ,,	16 ,, ..	18/- ,,

WHITE MOULDED PHIALS, plain or graduated Teaspoons—

½ oz. ..	3/8 per gross.	1½ oz. ..	4/9 per gross.
1 ,, ..	4/- ,,	2 ,, ..	5/6 ,,

PLEASE NOTE.

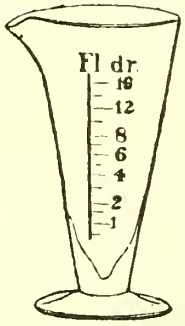
Six gross and upwards, assorted or otherwise, are carriage paid to any address in England; smaller quantities not carriage paid.

I. ISAACS & CO., Glass Bottle Manufacturers,
106 MIDLAND ROAD, ST. PANCRAS, LONDON.

Established 50 years. *Bankers—London and Westminster Bank.*

GLASS MEASURES.

Bottles,
Boat Feeders,
Eye Baths,
Flasks,
Syringes,
Test Tubes,
Trial Jars,



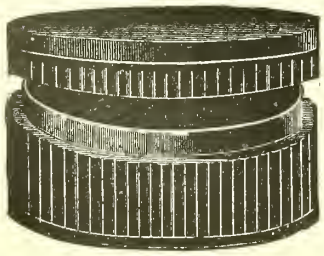
Vials,
Chemical and
Surgical
Glassware
of every description.

Wholesale and Export only.

SAMPLES AND PRICE LISTS ON APPLICATION.

A. W. QUAINTANCE, 73 BRUNSWICK CLOSE, CLERKENWELL LONDON, E.C.

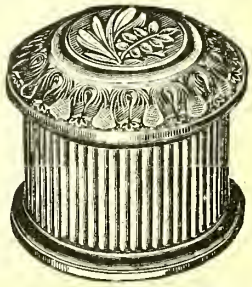
"STIPENDUM" CORK STOPPERS IN ALL SIZES.



"STIPENDUM" Puff Boxes,
Artistically decorated in various effects.

"STIPENDUM" GREASE-PROOF COVERED POTS,
In Terra Cotta, Chocolate, and Black.

These Grease-proof Covered Pots have perfectly-fitting lids, are practically unbreakable, and the only articles really answering the purpose intended.



To be had of all Druggists' Sundriesmen. Wholesale only of

THE "STIPENDUM" STOPPER CO., LIM., 47 LAMB'S CONDUIT STREET, W.C.

A FEW OF

SHIRLEYS' SPLENDID "SELLERS."

PATRIOTIC SOOTHERS.

Every soother has a **Union Jack** attached to it.

1*d.* Line ... ... 8/- gross.
2*d.* „ ... ... 15/- „
2*d.* Line, 16/- gross, with photos of Generals attached to the cord as a button.
3*d.* Line, with Silk Flag, 1 doz. very elaborate card, representing various regiments, 2/- doz.

FLORAL DAINTIES.

The "Cachou" par excellence. Highly concentrated, small, dainty. Put up in tubes, 3 doz. on a card and 18 on a card, 8/- gross.

Also in silver slide boxes, blocked, 3 tubes in a box, 2/9 doz. boxes, Violet, Heliotrope, Rose, Lavender, Wallflower, and Lily, for high-class trade.

WHITECROSS LEMONADE.

"Just like Home-made."

1*d.* packets ... ... 8/- gross.
¼-lb. Lever tins, decorated ... 2/6 doz.
½-lb. „ „ ... 4/- „
1-lb. „ „ ... 7/- „

Elaborate tins, in several colours.

INSECT POWDER.

3*d.* Line, filled, 1/10; 6*d.*, 3/6.

In smartly decorated tins, with inner dredgers.

X 18 Tins, empty, 6/6; X 18L, large, 10/- gross.

FLY PAPERS.—5/- gross; also smaller at 4/-, and Monster at 7/-. Write us, please. Special prices for quantity.

TIN BOXES.—Decorated and Plain, for variety of goods such as Health Saline, Citrate of Magnesia, Blaud's Pills, Vaseline, Compound Liquorice Powder, Horse Powder, Carbolic Powder, &c., &c. Special designs produced. Our noted X Series is now known to all as the finest range in the market.

SHIRLEY BROTHERS, Whitecross Works, Rockingham Street, Newington Causeway, S E.

TIDMAN'S SEA SALT.

"PINNACLE" SOAP STAND.

TOILET SOAPS. PERFUMERY.

DRUGGISTS' SUNDRIES.

TIDMAN & SON, LTD., LONDON, E.

INSECT POWDER

(DALMATIAN).

Imported Direct, & STOCKS KEPT, by **CHAS. WINDSCHUEGL & CO., 1 LEADENHALL ST., LONDON, E.C.**

Castor Oil. Nut Oil. Olive Oil. Cocoanut Oil. Sesame Oil. Cotton Oil. Mineral Oils (of every description).

Good Line for Agricultural Chemists.

Often sells in quantities of ½ and 1 doz. 5/- bottles, and even more.

Well Advertised in Agricultural Press.

ATTRACTIVE ADVERTISING MATTER.

MOST LIBERAL TERMS.

Correspondence solicited.

"WORTH ITS WEIGHT IN GOLD."—*PROFESSOR BUCKMAN.*

STEPHEN PETTIFER & SONS'

"SANTOVIN" (REGD) OR HERBAL TONIC

OR FLOCKMASTER'S FRIEND

NOTE.—"SANTOVIN" *is a new name adopted to prevent fraudulent substitution.*

A sure Cure and Preventive for Tapeworms, Stomach and Intestinal Worms, Husk or Hoose, Fevers, Scour, and Debility in Sheep and Lambs.

In Bottles, 5s. (Thirty to Forty Doses).

PAMPHLET WITH WORLD-WIDE TESTIMONY FREE.

CAUTION.—Beware of Imitations, and NOTE ONLY ADDRESS, Full Title, and Trade Mark

SOLE PROPRIETORS:

STEPHEN PETTIFER & SONS, Malmesbury, Wilts.

REGISTERED TRADE MARK.

Wholesale from usual Houses:—EDWARDS, BARCLAYS, SANGERS, SUTTONS, WYLEY, &c., &c.

DAY, SON & HEWITT,

Largest Makers in the World of

HORSE, CATTLE, & SHEEP MEDICINES.

The Greatest Animal Restorative of the Age.

Acts like Magic for

Fret, Colic, or Gripes in Horses

Colds and Chills

Hoven or Blown Cattle and Sheep

Scour or Diarrhœa

General Debility in Stock

PRICE: 1/9 per bottle; 20/- per doz. box.

Or Inflammation Powder for

Colds, Indigestion, Costiveness

Red Water, Fevers, Yellows

Hidebound, Loss of Cud, &c.

Specially adapted for

Cows Calving, Ewes Lambing

PRICE: (Cows, &c.) 13/- per doz. Packets.

The Antidote of Pain, Inflammation, & Gangrene

FOR

Wounds, Cuts, Bruises

Sore Shoulders, Saddle Galls

Rheumatism and all Bad Swellings

Broken Knees, Cracked Heels

Strains of Ligaments and Tendons

PRICE: 2/6, 3/6, and 7/- per bottle.

The Great Cure for

HUSK, HOOSE, COUGH, & TAPEWORMS

In Heifers, Calves, Sheep, and Lambs.

PRICE: 2/9 per bottle; Quart, 10/6; ½-Gallon, 20/-.

The Great Cure for

HUSK, HOOSE, COUGH, & TAPEWORMS

In Heifers, Calves, Sheep, and Lambs.

Address:—22 DORSET ST., LONDON, W. (Liberal Terms to Agents, and full particulars on application.)

PASSING OFF MEDICINES

AS AND FOR

DAY & SONS' MEDICINES.

HIGH COURT OF JUSTICE, CHANCERY DIVISION.

DAY AND SONS, *v.* RILEY AND WHITTAKER,

Plaintiffs. *Defendants.*

Read Mr. JUSTICE BUCKLEY'S judgment delivered on the 15th May, 1900, in reference to Riley and Whittaker passing off their Colic Draught as and for Day and Sons' "BLACK DRINK":—

"It is plain from the evidence that what the Defendants have done is to "dress up their goods in such a form as to induce the belief that they "were the goods of the Plaintiffs. The Plaintiffs are, in my opinion, "entitled to an injunction restraining the Defendants their agents and "servants from passing off, or attempting to pass off, the Defendants' "goods as and for the Plaintiffs' goods, and in particular from selling "or offering for sale so as to induce the belief that it is the Plaintiffs' "manufacture any preparation of medicine for animals not of the Plaintiffs' "manufacture by means of the use of the title 'BLACK DRINK,' or "any title colourably differing therefrom, or by means of the use of "bottles similar in shape to the Plaintiffs' bottles, or of labels similar to "or only colourably differing from the Plaintiffs' labels or otherwise got "up in any manner similar to or only colourably differing from the "Plaintiffs' preparation. I grant that injunction."

☛ **This will justify us in frequently and urgently cautioning the public against such persons, and clearly show the solid grounds we have for saying**

"Beware of imitators and dishonest traders."

Note that the Old Original "BLACK DRINK" can only come from

It is our intention to take instant proceedings against persons pirating our titles and labels.

Established 1840.
Day & Sons, Grewe.

It is our intention to take instant proceedings against persons pirating our titles and labels.

"EQUISAN."

Registered.

A perfect, safe, and efficacious NON-POISONOUS Specific for the Cure of all Skin Diseases in Horses and Dogs.

It is quite harmless, and is a great boon to Horse Keepers who require a cheap and simple remedy for the eradication of Mange or Itch, Cuts, old Sores, Collar Galls, Greasy Heels, and for producing rapid growth of hair on bare patches, &c.

Full Directions with each Bottle.

PRICE—	Pints	Quarts	Half-gallon	1 Gallon	6 Gallons
	1/-	2/-	3/-	5/-	27/6

Including Bottles.

Test Samples free on application. Liberal terms to the Trade.

CORRY & CO., LIM., Gainsford St., Shad Thames, LONDON, S.E.

CAMPHORTAR

3/- per Gross

CAMPHORTAR

A powerful Disinfectant, Deodoriser, Insect Destroyer, and Air Purifier.

CAMPHORTAR

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES.

HEBDEN'S

CHLORIDE OF LIME

IN

AIRTIGHT, ODOURLESS, WATERPROOF PACKETS

Retains the Chlorine and keeps the Powder dry longer than any other packet.

4 oz., 8/- gross; 8 oz., 16/- gross; 16 oz., 30/- gross.

SOLD BY THE PRINCIPAL DRUG AND SUNDRY HOUSES.

Samples on application.

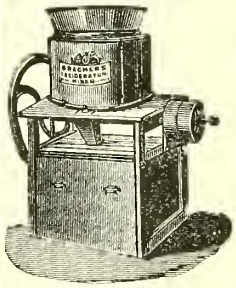
Manufactured only by

W. C. HEBDEN, Albany Works, HALIFAX. **YORKSHIRE.**

SIFTER & MIXER (BRACHER'S PATENT)

THE DESIDERATUM.

For mixing powders of any description there is nothing to equal it for speed and thoroughness. About 12,000 are in constant use throughout the World, from 7 lb. capacity



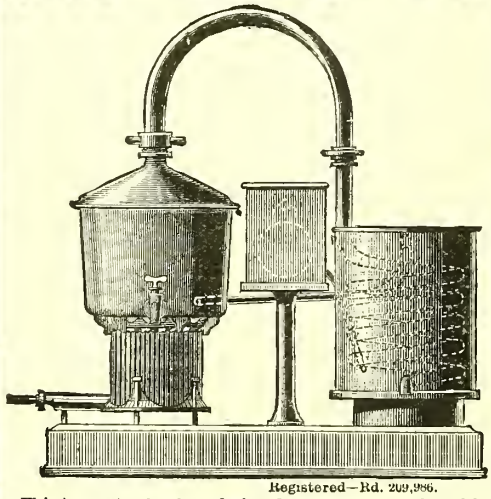
Price 27/6

up to 1 cwt. size for hand and power as per Illustration.

Sole Maker and Owner of the above,

WILLIAM NEWMAN, WINCANTON.

THE 'AUTO' STILL



Registered—Rd. 209,986.

Produces absolutely Pure Distilled Water. Entirely Automatic. Economical in Working. Requires no Attention. Compact in Design. Saves Labour. is very Durable and inexpensive.

This Apparatus has been designed to supply a want long felt by Chemists, Dispensers, Wine Merchants, Hotel Keepers, Analysts and Hospitals, &c., *i.e.*, the production of sufficient Pure Distilled Water for their daily need, automatically in an inexpensive Apparatus, requiring no attention, at the lowest possible cost.

A Gallon of Boiling Water may be drawn from the Still without disturbing the flow of distillate.

An Oil Lamp can be used instead of Gas if required.

This Apparatus produces nearly half a gallon of Distillate per hour, or say four gallons per day.

BENNETT, SONS & SHEARS, LIM.

Engineers and Coppersmiths. Established 100 years.

167 Kingsland Rd., LONDON, N.E.

Telegrams—"COPPERSMITHS LONDON."

MACKEY'S

TERPINOL FLUID.

A Powerful Disinfectant and Deodorant. As supplied to H.M. Post Offices and Public Buildings. It is Non-poisonous, and will not Stain or Destroy Articles of Clothing.

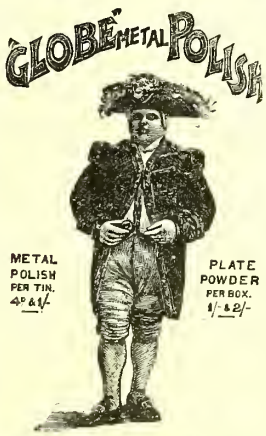
SOLE MAKERS—

MACKEY, MACKEY & CO., Ltd., Manufacturing Chemists,

175 GRANGE ROAD, BERMONDSEY, LONDON, S.E.

Telegraphic Address—"Terpinol London." Telephone No. 589 Hop.

"GLOBE"



A THE STATE COACHMAN OF THE LORD MAYOR OF LONDON SAYS:- "FOR BOTH SILVER AND BRASS THE "GLOBE" IS THE BEST POLISH I HAVE EVER USED."

As used in the Households of
H.M. THE QUEEN
And most of the Aristocracy.

GIVES UNBOUNDED SATISFACTION
To Customers and Dealers.

BRILLIANT! LASTING! HARMLESS! EASY!

FIXED MINIMUM PRICES AND NO CUTTING.

"GLOBE" IS THE KING OF POLISHES!

POLISH.

Sole Consignees: **RAIMES & CO.,** Stockton-on-Tees.
London Office—5 PHILPOT LANE, E.C.

FINE PALE GLUES.

GELATINES.

CONCENTRATED SIZE

Write for Samples and Prices.

SAML. MEGGITT & SONS, LTD.

SUTTON-IN-ASHFIELD, NOTTS.

TELEGRAMS—"MEGGITTS MANSFIELD."

BEESWAX.

PURE REFINED BEESWAX.
"W. H. B."
In 2 lb. cakes in cases of about 130 lbs.
" 1 " " 130 "
" ½ " " 130 "
" ¼ " " 130 "
" 1 oz. cakes in 2 lb. parcels in cases of .. .. .. 54 "
French Refined, in 1 lb. cakes in cases of .. .. ..130 "

PURE WHITE BEESWAX.
"W. H. B."
IN CASES OF 54 LBS.
In round cakes in 2 lb. parcels, or in oblong cakes loose.
In 1 oz. cakes in 2 lb. parcels.
Plain blocks of 7½ lbs. in cases of 250 lbs.
White Wax.—Plain round cakes in 2 lb. parcels in cases of 72 lbs.

Our customers only are our agents. Weights and quality guaranteed. **Free on** rail in Liverpool. Ex Quay London, Glasgow, Bristol, and Hull.

The Consumers of the W. H. B. Yellow or White Beeswax may have an analysis by Dr. BERNARD DYER, 17 Gt. Tower Street, LONDON, E.C., or E. DAVIES & SON, 18 Chapel Street, LIVERPOOL, annually at the expense of the MANUFACTURERS.

W. H. BOWDLEAR & CO.

149 PEARL STREET, BOSTON, MASS., U.S.A.
Cable Address—"BOWDLEAR BOSTON."

TO WHOLESALE & EXPORT CHEMISTS.

Price's Patent Candle Company Ltd.

BELMONT WORKS, BATTERSEA, LONDON, S.W.,
ARE PREPARED TO QUOTE FOR

OILS. Neatsfoot, Lard, Animal, Olive, Cooking, Castor, Cod, Sperm, Coconut, Palm, etc.
Water White Mineral Oil, free from Sulphur (Paraffinum Liquidum B.P.)
LARDS. Prepared, Benzoated, Indurated.
WAXES. Beeswax, White Wax, Ceresine, Paraffin Wax, Japan Wax, Spermaceti.
PETROLEUM JELLY "Ceratine" White or Yellow, Plain or Scented.
Samples and Price Lists on Application.

CARDS.

FOR TERMS APPLY to the PUBLISHER.

FREDK. FINK & CO.
10 & 11 MINCING LANE, LONDON, E.C.
SPECIALITIES: Glycerine — Gum Arabic — Gum Tragacanth—Pure Beeswax—Honey.

PRECIPITATED CHALK.
CRETA PRÆCIP. B.P.
FINEST and WHITEST for DENTIFRICES and TOILET PURPOSES.
CHEAPEST SELLERS IN THE MARKET.
AUG. LEVERMORE & CO., 34, Lime St., LONDON, E.C.
TELEGRAMS: "LEVERMORE, LONDON." A.B.C CODE USED.

A Large and Varied Stock to choose from.
Inspection invited.
Samples sent on approval.

VANILLA!!!

Finest Beans, 8 to 9 inches	26/-, 28/-	per lb.
Medium „ 6 „ 7 „	22/-, 24/-	„
Short „ 3 „ 5 „	19/6, 21/-	„
Manufacturing quality	18/-, 19/-	„

FELIX PAVIA, VANILLA MERCHANT, 28 St. Mary-at-Hill, E.C.

Have you tried **F. A. Corio's** Messina Lemon Oil? If not, do so, and convince yourself of its superiority. Price List on application.

HYGIENE-DE-LA-TETE TRADE MARK.
E. H. THIELLAY'S (Registered 1867)
MOUSQUETAIRE
A Bright Fixing Liquid for the special training of the MOUSTACHE. Invaluable to Medical Men, repelling infectious miasma from the respiration. In Cases, with Brush, Pom.-Hongroise, &c., at 2/-, 3/6, 5/-, 7/6, &c.
Most successful Novelty, 2/- sample post free 15 stamps.
All Wholesale Houses, or direct from
E. H. THIELLAY,
Parfumeur-Chimiste, Amersham Park, New Cross, LONDON.
(SHOW ROOMS AT CHARING CROSS HOTEL.) [1]

HUGO LORENZ, 7 & 8 Idol Lane, Gt. Tower St., **LONDON, E.C.**
ALCOHOL ABSOLUTE, according to new "British Pharmacopœia," in about 1-cwt. basketted Tins, ex stock London, in bond, and duty paid.
S.V.R. in 40-gallon Drums, pure tinned.
AMMONIA, LIQUID ANHYDROUS for Ice Machines.

TO LET.

Inventors **J. W. PINDAR & CO.** Inventors
Write for our Illustrated Catalogue
THE NEW ROTARY PILL MACHINES, PIPING PRESSES, MASS KNEADERS, COATERS, PILL ROUNDING and FINISHING MACHINES, D.A. TINCTURE PRESSES, &c., &c.
75 NEW CHURCH ROAD, CAMBERWELL, S.E.

TEETH! TEETH!
A. J. BROWNING, LTD.
The Laboratories, GRIMSBY,
SUPPLY the CHEAPEST and BEST WORK in ENGLAND.
SEND FOR PRICE LIST.

DIABETES.
GLUTEN FLOUR, Bread and Biscottes.
SOYA FLOUR, Bread and Biscuits.
MANUFACTURED BY
G. VAN ABBOTT & SONS,
Manufacturers of all Foods for Diabetics and Obesity,
BADEN PLACE, CROSBY ROW, BOROUGH, LONDON S.E.
Telegraphic Address—"GLUTENS LONDON." ESTABLISHED 1859.

HIGH-CLASS MECHANICAL
DENTISTRY
Lowest Prices, Superior Workmanship. Price Lists free.
FRED. H. BARKER, DENTIST, GRIMSBY.
Barker's Premier Amalgam. The Best Stopping.
PRICE 10/- PER OZ.

SPENCER & SON,
MECHANICAL DENTISTS TO THE PROFESSION,
38 South Street, GREENWICH.
FIRST-CLASS Work of every description on very moderate terms.
Send for Price Lists.
Great Reduction in Vulcanite Work. Punctuality Guaranteed.
ESTABLISHED 20 YEARS.

Corks I Corks II Corks III
RINGROSE & COBB,
Wholesale, Retail, and Export Cork Merchants and Manufacturers,
139 CAMBRIDGE ROAD, MILE END, LONDON, N.E.
DISPENSING CORKS, 6 oz. and 8 oz., from 6d. per gross.
VIAL „ „ „ „ 4d. „
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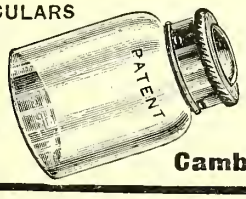

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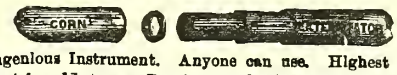

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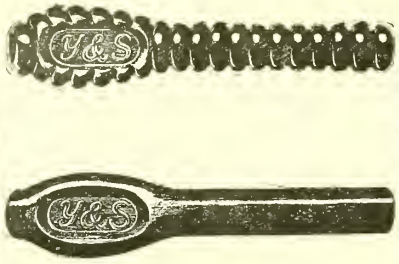

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"SIR,—We have noticed several letters in your journal "relating to the cutting of Homœopathic Medicines, and "think you may be interested to have our views on the "subject.

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"Yours faithfully,
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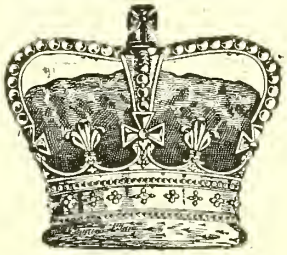

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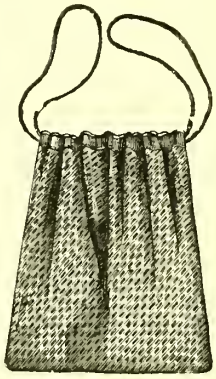

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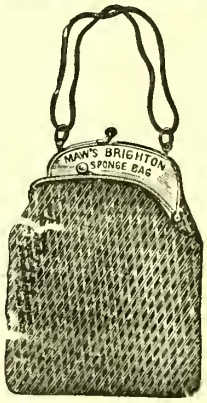

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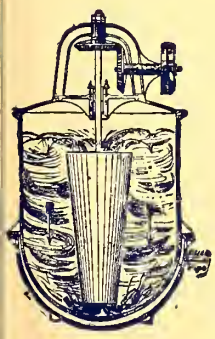

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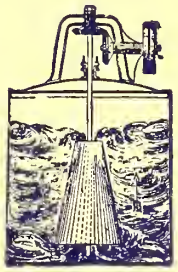

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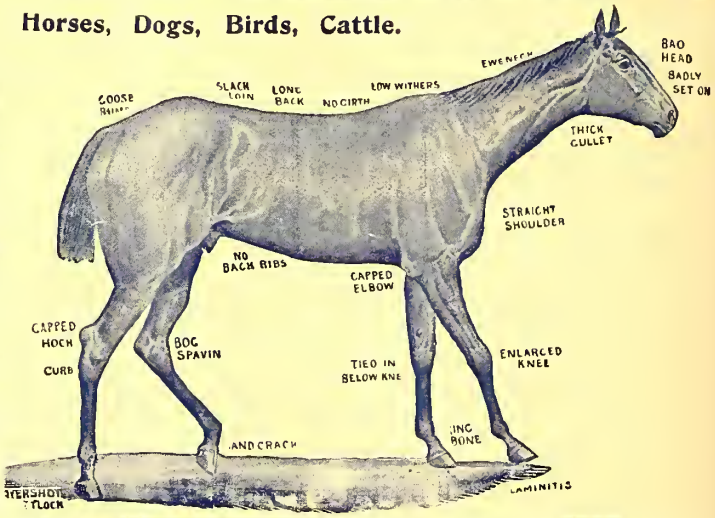

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